ifm electronic

7415 x

Made in Germany

2010

fluid sensors and diagnostic systems

position sensors and object recognition

bus, identification and control systems

ifm electronic – close to you!

- **Inductive proximity sensors for all industries.**
- **Wide choice of housing styles and operating voltages.**
- **High-quality housing materials.**
- **Cylindrical housings from 3 to 34 mm diameter, various rectangular housings.**
- **Large supporting range of mounting and wiring accessories.**

Inductive sensors

In all automated processes sensors are absolutely necessary to provide the PLC with information. They supply the necessary signals on positions, limits or serve as pulse pick-ups for counting tasks or for monitoring rotational speed. Inductive and capacitive sensors are nowadays indispensable for industrial usage. As compared to mechanical switches they offer ideal conditions: non-contact operation free from any wear and tear, high switching frequencies and accuracy. In addition, they are insensitive to vibration, dust and moisture. Inductive sensors detect all metals without contact, capacitive sensors almost all solid and liquid media such as metal, glass, wood, plastic, water, oil, etc.

Typical application: Positioning sensing in automation technology; proximity sensors operate reliably and without wear.

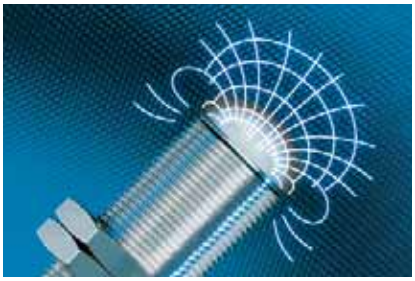
Operating principle of inductive sensors

Inductive sensors take advantage of the physical effect of the change in the quality factor in a resonant circuit caused by eddy current losses in conductive materials. This is how it works: A LC tuned circuit generates a high frequency electromagnetic field. This field is radiated from the active face of the sensor. If a conductive material enters this field, eddy currents will be formed in accordance with the law of inductance which draw energy from the oscillator. This reduces the oscillation amplitude. The change is converted into a switching signal. The operating principle permits detection of all metals irrespective of whether they are moving or not. The distance to the active face at which an electrically conductive material causes a change of signal in the sensor is called sensing range. The sensing range of an inductive sensor is defined by means of a target of mild steel (Fe 360). If the switch is damped by other metals, e.g. aluminium or copper, this is reduced. Using correction factors the user can calculate the attainable sensing ranges.

Application sensors

Every application has its own requirements as regards the sensors to be used. Temperature shocks, mechanical influences or aggressive cleaning agents are just a few of the possible environmental influences to which sensors are subjected. ifm electronic therefore offers inductive sensors which have been developed for special applications. This includes for example the use of selected housing materials such as stainless steel, LCP, PEEK, PBT or Duroplast. An innovative, consistent sealing concept from the sensor to the connector ensures ideal protection against ingress of moisture and aggressive media.

High frequency electromagnetic field: The inductive sensor detects all metals.



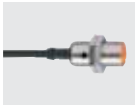
Sensors for industrial applications, DC

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	Ø 4 / L = 30	0.8 f	stainless steel	10...36	IP65	2000	100	1	**IZ5026**
	Ø 4 / L = 23	0.8 f	stainless steel	10...30	IP65	2000	100	2	**IZ5051**
	Ø 3 / L = 27	1 nf	stainless steel	10...30	IP67	5000	100	3	**IZ5048**
	Ø 4 / L = 23	1.2 f	stainless steel	10...30	IP65	> 2000	100	2	**IZ5052**
	Ø 4 / L = 27	1.5 nf	stainless steel	10...30	IP67	1800	100	4	**IZ5047**
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	Ø 4 / L = 45	0.8 f	stainless steel	10...36	IP65	2000	100	5	**IZ5035**
	Ø 4 / L = 41	1.5 nf	stainless steel	10...30	IP67	1800	100	6	**IZ5046**
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M5 / L = 30	0.8 f	stainless steel	10...36	IP65	2000	100	7	**IY5029**
	M5 / L = 23	0.8 f	stainless steel	10...30	IP65	2000	100	8	**IY5051**
	M5 / L = 23	1.2 f	stainless steel	10...30	IP65	< 2000	100	8	**IY5052**
	M5 / L = 27	1.5 nf	stainless steel	10...30	IP67	1800	100	9	**IY5049**
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M5 / L = 45	0.8 f	stainless steel	10...36	IP65	2000	100	10	**IY5036**
	M5 / L = 41	1.5 nf	stainless steel	10...30	IP67	1800	100	11	**IY5048**
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	Ø 6.5 / L = 35	1 f	brass	10...36	IP67	900	200	12	**IT5001**
	Ø 6.5 / L = 19	2 f	stainless steel	10...30	IP67	1000	200	13	**IT5039**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	Ø 6.5 / L = 27	2 f	high-grade st. steel	10...30	IP67	1500	100	14	**IT5042**
	Ø 6.5 / L = 27	4 nf	high-grade st. steel	10...30	IP67	500	100	15	**IT5043**
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	Ø 6.5 / L = 49	1 f	high-grade st. steel	10...36	IP65	1500	200	16	**IT5021**
	Ø 6.5 / L = 49	1.5 f	brass	10...36	IP65	2000	250	16	**IT5034**
	Ø 6.5 / L = 30	2 f	high-grade st. steel	10...30	IP67	1500	100	17	**IT5040**
	Ø 6.5 / L = 30	4 nf	high-grade st. steel	10...30	IP67	700	100	18	**IT5041**
	Ø 6.5 / L = 50	4 nf	high-grade st. steel	10...30	IP67	300	100	19	**IT5044**
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M8 / L = 35	1 f	brass	10...36	IP67	750	200	20	**IE5072**
	M8 / L = 50	1 f	brass	10...36	IP67	750	200	21	**IE5121**
	M8 / L = 50	1 f	PBT	10...36	IP67	1000	200	21	**IE5129**
	M8 / L = 20	1.5 f	stainless steel	10...30	IP67	1000	200	22	**IE5348**
	M8 / L = 27	2 f	high-grade st. steel	10...30	IP67	1500	100	23	**IE5368**
	M8 / L = 35	2 nf	PBT	10...36	IP67	800	200	20	**IE5099**
	M8 / L = 27	4 nf	high-grade st. steel	10...30	IP67	500	100	24	**IE5369**
Cable 2 m · Output function ⎍ / ⎍ · DC PNP/NPN · Wiring diagram no. 26									
	M8 / L = 50	1 f	brass	5...36	IP67	2000	200	21	**IE5222**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎓ / ⏚ · DC PNP/NPN · Wiring diagram no. 26									
	M8 / L = 50	2 nf	brass	5...36	IP67	2700	200	25	**IE5238**
	M8 / L = 50	2 nf	PBT (Pocan)	5...36	IP67	2000	200	21	**IE5202**
Cable 2 m · Output function ⎓ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 27									
	M8 / L = 37	3 f	brass	10...30	IP67	1000	100	26	**IE5343**
	M8 / L = 37	5 nf	brass	10...30	IP67	700	100	27	**IE5345**
Cable with connector 0.3 m · Output function ⎓ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M8 / L = 37	3 f	brass	10...30	IP67	1000	100	26	**IE5344**
	M8 / L = 37	5 nf	brass	10...30	IP67	700	100	27	**IE5346**
	M8 / L = 37	3 f	brass	10...30	IP67	1000	100	26	**IE5351**
	M8 / L = 37	5 nf	brass	10...30	IP67	700	100	27	**IE5352**
M8 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	M8 / L = 50	2 f	brass	10...36	IP67	1000	250	28	**IE5287**
	M8 / L = 30	2 f	high-grade st. steel	10...30	IP67 /	1500	100	29	**IE5366**
	M8 / L = 30	4 nf	high-grade st. steel	10...30	IP67	700	100	30	**IE5367**
M8 connector · Output function ⏚ · DC PNP · Wiring diagram no. 3									
	M8 / L = 50	1 f	high-grade st. steel	10...36	IP65	1500	200	31	**IE5258**
M8 connector · Output function ⎓ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M8 / L = 40	3 f	brass	10...30	IP67	1000	100	32	**IE5338**
	M8 / L = 40	5 nf	high-grade st. steel	10...30	IP67	700	100	33	**IE5340**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Draw-ing no.	Order no.
M8 connector · Output function ⏦ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 29									
	M8 / L = 40	3 f	brass	10...30	IP67	1000	100	34	**IE5349**
	M8 / L = 40	5 nf	high-grade st. steel	10...30	IP67	700	100	33	**IE5350**
M12 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	M8 / L = 53	1 f	brass	10...36	IP67	750	200	35	**IE5090**
	M8 / L = 62	2 f	brass	10...36	IP67	1000	250	36	**IE5312**
	M8 / L = 50	2 f	high-grade st. steel	10...36	IP68	1000	100	37	**IE5379**
	M8 / L = 62	4 nf	brass	10...36	IP67	300	200	38	**IE5288**
M12 connector · Output function ⏦ · DC PNP · Wiring diagram no. 4									
	M8 / L = 62	2 f	brass	10...36	IP67	800	250	39	**IE5327**
M12 connector · Output function ⎓ / ⏦ · DC PNP/NPN · Wiring diagram no. 30									
	M8 / L = 69	1 f	brass	5...36	IP67	2700	200	40	**IE5203**
Cable 2 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	M12 / L = 35	2 f	brass	10...36	IP67	1500	150	41	**IF5188**
	M12 / L = 71	2 f	brass	10...55	IP67	800	250	42	**IF5297**
	M12 / L = 71	2 f	PBT	10...55	IP67	800	250	42	**IF5313**
	M12 / L = 35	4 nf	brass	10...36	IP67	1500	150	43	**IF5249**
	M12 / L = 71	4 nf	brass	10...36	IP67	1500	250	44	**IF5329**
	M12 / L = 71	4 nf	PBT	10...36	IP67	400	250	42	**IF5345**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Draw-ing no.	Order no.
Cable 2 m · Output function ⎓ / ⏚ · DC PNP/NPN · Wiring diagram no. 26									
	M12 / L = 71	2 f	brass	10...55	IP67	1100	400	42	**IF5645**
	M12 / L = 71	2 f	PBT	10...55	IP67	1100	400	42	**IF5644**
	M12 / L = 71	4 nf	brass	10...55	IP67	1500	400	44	**IF5646**
	M12 / L = 71	4 nf	PBT	10...55	IP67	1500	400	42	**IF5597**
M12 connector · Output function ⎓ / ⏚ · DC PNP/NPN · Wiring diagram no. 30									
	M12 / L = 83	2 f	brass	10...55	IP67	1100	300	45	**IF5598**
	M12 / L = 83	4 nf	brass	10...55	IP67	1500	300	46	**IF5647**
Cable 2 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	M18 / L = 38	5 f	brass	18...36	IP67	500	150	47	**IG5221**
	M18 / L = 80	5 f	brass	10...36	IP67	500	250	48	**IG5397**
	M18 / L = 80	5 f	PBT	10...36	IP67	500	250	48	**IG5399**
	M18 / L = 38	8 nf	brass	18...36	IP67	200	150	49	**IG5285**
	M18 / L = 80	8 nf	brass	10...36	IP67	300	250	50	**IG5398**
	M18 / L = 80	8 nf	PBT	10...36	IP67	300	250	48	**IG5401**
Cable 2 m · Output function ⎓ / ⏚ · DC PNP/NPN · Wiring diagram no. 26									
	M18 / L = 80	5 f	PBT	10...55	IP67	700	400	48	**IG5593**
	M18 / L = 80	5 f	brass	10...55	IP67	700	400	48	**IG5594**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎓ / ⎓ · DC PNP/NPN · Wiring diagram no. 26									
	M18 / L = 80	8 nf	PBT	10...55	IP67	300	400	48	**IG5533**
	M18 / L = 80	8 nf	brass	10...55	IP67	300	400	50	**IG5596**
M12 connector · Output function ⎓ / ⎓ · DC PNP/NPN · Wiring diagram no. 30									
	M18 / L = 70	5 f	brass	10...55	IP67	700	400	51	**IG5595**
	M18 / L = 76	8 nf	brass	10...55	IP67	300	400	58	**IG5597**
Terminals · Output function ⎓ / ⎓ · DC PNP/NPN · Wiring diagram no. 31									
	M18 / L = 110	5 f	PBT	10...55	IP65	800	400	57	**IG5718**
	M18 / L = 110	8 nf	PBT	10...55	IP65	300	400	57	**IG5719**
Cable 2 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	Ø 20 / L = 77	10 nf	PBT	10...36	IP67	300	250	52	**IA5082**
Cable 2 m · Output function ⎓ / ⎓ · DC PNP/NPN · Wiring diagram no. 26									
	Ø 20 / L = 77	10 nf	PBT	10...55	IP67	300	400	52	**IA5108**
M12 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	Ø 20 / L = 93	10 nf	PBT	10...36	IP67	300	250	53	**IA5127**
Terminals · Output function ⎓ · DC PNP · Wiring diagram no. 5									
	Ø 20 / L = 92	10 nf	PBT	10...36	IP65	300	250	54	**IA5062**
Terminals · Output function ⎓ · DC PNP · Wiring diagram no. 5									
	Ø 20 / L = 92	10 nf	PBT	10...36	IP65	300	250	54	**IA5063**
Terminals · Output function ⎓ / ⎓ · DC PNP/NPN · Wiring diagram no. 31									
	Ø 20 / L = 92	10 nf	PBT	10...55	IP65	300	300	54	**IA5122**
Cable 2 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	M30 / L = 45	10 f	brass	18...36	IP67	300	150	60	**II5166**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Draw-ing no.	Order no.
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M30 / L = 81	10 f	brass	10...36	IP67	250	250	59	**II5256**
	M30 / L = 81	10 f	PBT	10...36	IP67	250	250	59	**II5369**
	M30 / L = 45	15 nf	brass	18...36	IP67	250	150	61	**II5346**
	M30 / L = 81	15 nf	brass	10...36	IP67	250	250	62	**II5284**
	M30 / L = 81	15 nf	PBT	10...36	IP67	250	250	59	**II5300**
Cable 2 m · Output function ⎍ / ⎍⊥ · DC PNP/NPN · Wiring diagram no. 26									
	M30 / L = 45	10 f	brass	10...55	IP67	450	400	60	**II5493**
	M30 / L = 81	10 f	PBT	10...55	IP67	450	400	59	**II5488**
	M30 / L = 81	10 f	brass	10...55	IP67	450	400	59	**II5489**
	M30 / L = 81	15 nf	PBT	10...55	IP67	200	400	59	**II5436**
	M30 / L = 81	15 nf	brass	10...55	IP67	200	400	62	**II5491**
M12 connector · Output function ⎍ / ⎍⊥ · DC PNP/NPN · Wiring diagram no. 30									
	M30 / L = 78	10 f	brass	10...55	IP67	450	400	63	**II5490**
	M30 / L = 78	15 nf	brass	10...55	IP67	200	400	64	**II5492**
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	Ø 34 / L = 82	20 nf	PBT	10...36	IP67	60	250	55	**IB5096**
Terminals · Output function ⎍ / ⎍⊥ · DC PNP/NPN · Wiring diagram no. 31									
	Ø 34 / L = 98	20 nf	PBT	10...55	IP65	300	300	56	**IB5124**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Terminals · Output function ⎓ / ⎍ · DC PNP · Wiring diagram no. 5									
	Ø 34 / L = 98	20 nf	PBT	10...36	IP65	350	250	56	**IB5063**
	Ø 34 / L = 98	30 nf	PBT	10...36	IP65	350	200	56	**IB5133**
Cable 2 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	25 x 5 x 5	0.8 f	aluminium	10...30	IP65	1000	100	78	**IL5022**
	40 x 8 x 8	2 f	brass	10...36	IP65	2000	250	65	**IL5002**
	40 x 8 x 8	2 f	brass	10...36	IP65	2000	250	65	**IL5003**
	40 x 8 x 8	2.5 f	brass	10...36	IP65	2000	250	65	**IL5020**
M8 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	40 x 8 x 8	2 f	brass	10...36	IP65	2000	250	66	**IL5004**
	40 x 8 x 8	2 f	brass	10...36	IP65	2000	250	66	**IL5005**
Cable 2 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	28 x 10 x 16	2 f	PBT	10...36	IP67	800	200	67	**IS5001**
	28 x 10 x 16	3 nf	PBT	10...36	IP67	100	200	67	**IS5031**
	28 x 10 x 16	4 nf	PBT	10...36	IP67	2000	250	77	**IS5070**
Cable 2 m · Output function ⎓ / ⎍ · DC PNP/NPN · Wiring diagram no. 26									
	28 x 10 x 16	2 f	PBT	5...36	IP67	2000	200	67	**IS5026**
M8 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	28 x 10 x 16	2 f	PBT	10...36	IP67	800	200	68	**IS5035**
	28 x 10 x 16	4 nf	PBT	10...36	IP67	2000	250	68	**IS5071**
Cable 2 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	40 x 12 x 26	2 f	PBT	10...36	IP67	1400	250	69	**IN5121**
	40 x 12 x 26	4 nf	PBT	10...36	IP67	1300	250	69	**IN5129**
Cable 2 m · Output function ⎓ / ⎍ · DC PNP/NPN · Wiring diagram no. 26									
	40 x 12 x 26	2 f	PBT	10...55	IP67	1300	400	69	**IN5207**
	40 x 12 x 26	4 nf	PBT	10...55	IP67	1200	400	69	**IN5208**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 6									
	40 x 12 x 26	2 f	PBT	10...36	IP67	1400	250	69	**IN5186**
	40 x 12 x 26	4 nf	PBT	10...36	IP67	1300	250	69	**IN5188**
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	40 x 12 x 26	2 f	PBT	10...36	IP67	1400	250	70	**IN5230**
	40 x 12 x 26	4 nf	PBT	10...36	IP65	1300	250	70	**IN5212**
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	60 x 36 x 10	5 f	PBT	10...36	IP67	400	250	71	**IW5051**
	60 x 36 x 10	8 nf	PBT	10...36	IP67	300	250	79	**IW5058**
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 6									
	60 x 36 x 10	5 f	PBT	10...36	IP67	400	250	71	**IW5048**
	60 x 36 x 10	8 nf	PBT	10...36	IP67	300	250	71	**IW5053**
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	60 x 36 x 10	8 nf	PBT	10...36	IP65	300	250	80	**IW5064**
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 3									
	60 x 36 x 10	8 nf	PBT	10...36	IP67	300	250	80	**IW5062**
Terminals · Output function ⎍ / ⎍ · DC PNP · Wiring diagram no. 5									
	40 x 40 x 120	15 f	PPE	10...36	IP65	350	250	72	**IM5020**
	40 x 40 x 120	20 nf	PPE	10...36	IP65	350	250	72	**IM5019**
	40 x 40 x 120	30 nf	PPE	10...36	IP65	100	250	72	**IM5046**
Terminals · Output function ⎍ / ⎍ · DC PNP/NPN · Wiring diagram no. 31									
	40 x 40 x 120	15 f	PPE	10...55	IP65	> 350	400	72	**IM5037**
	40 x 40 x 120	20 nf	PPE	10...55	IP65	> 300	400	72	**IM5038**
Terminals · Output function ⎍+⎍ · DC PNP · Wiring diagram no. 7									
	40 x 40 x 118	15 f	PBT	10...60	IP67	150	200	81	**IV5003**
	40 x 40 x 118	20 f	PBT	10...60	IP67	150	200	73	**IV5004**
Terminals · Output function ⎍ / ⎍ · DC PNP · Wiring diagram no. 32									
	90 x 60 x 40	40 nf	PPE	10...36	IP65	15	250	74	**IC5005**
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	120 x 80 x 30	50 nf	PPE	10...36	IP67	100	250	75	**ID5026**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Terminals · Output function ⎓ / ⏚ · DC PNP · Wiring diagram no. 32									
	105 x 80 x 40	60 nf	PPE	10...36	IP65	100	250	76	**ID5005**

f = flush / nf = non flush

Sensors for industrial applications, AC and AC/DC

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f AC / DC [Hz]	I_{load} AC / DC [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎓ · AC · Wiring diagram no. 8									
	M12 / L = 71	2 f	PBT	20...250	IP67	25	250	42	**IF0001***
	M12 / L = 71	2 f	brass	20...250	IP67	25	250	42	**IF0005***
	M12 / L = 71	4 nf	PBT	20...250	IP67	25	250	42	**IF0003***
	M12 / L = 71	4 nf	brass	20...250	IP67	25	250	44	**IF0007***
Cable 2 m · Output function ⎓ · AC/DC · Wiring diagram no. 9									
	M18 / L = 80	5 f	PBT	20...250	IP67	25 / 50	350 / 100	48	**IG0005***
	M18 / L = 80	5 f	brass	20...250	IP67	25 / 50	350 / 100	48	**IG0011***
	M18 / L = 80	8 nf	PBT	20...250	IP67	25 / 50	350 / 100	48	**IG0006***
	M18 / L = 80	8 nf	brass	20...250	IP67	25 / 50	350 / 100	50	**IG0012***
	Ø 20 / L = 77	10 nf	PBT	20...250	IP67	25 / 70	350 / 100	52	**IA0004***
Cable 2 m · Output function ⏚ · AC/DC · Wiring diagram no. 10									
	Ø 20 / L = 77	10 nf	PBT	20...250	IP67	25 / 70	350 / 100	52	**IA0027***
Terminals · Output function ⎓ / ⏚ · AC/DC · Wiring diagram no. 11									
	Ø 20 / L = 92	10 nf	PBT	20...250	IP65	25 / 70	350 / 100	54	**IA0032***

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f AC / DC [Hz]	I_{load} AC / DC [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎓ · AC/DC · Wiring diagram no. 9									
	M30 / L = 81	10 f	PBT	20...250	IP67	25 / 50	350 / 100	59	**II0005***
	M30 / L = 81	10 f	brass	20...250	IP67	25 / 50	350 / 100	59	**II0011***
	M30 / L = 81	15 nf	PBT	20...250	IP67	25 / 50	350 / 100	59	**II0006***
	M30 / L = 81	15 nf	brass	20...250	IP67	25 / 50	350 / 100	62	**II0012***
	Ø 34 / L = 82	20 nf	PBT	20...250	IP67	25 / 50	350 / 100	55	**IB0004***
	Ø 34 / L = 82	30 nf	PBT	20...250	IP67	25 / 50	350 / 100	55	**IB0026***
Cable 2 m · Output function ⏚ · AC/DC · Wiring diagram no. 10									
	Ø 34 / L = 82	20 nf	PBT	20...250	IP67	25 / 50	350 / 100	55	**IB0017***
	Ø 34 / L = 82	30 nf	PBT	20...250	IP67	25 / 50	350 / 100	55	**IB0027***
Terminals · Output function ⎓ / ⏚ · AC/DC · Wiring diagram no. 11									
	Ø 34 / L = 98	20 nf	PBT	20...250	IP65	25 / 50	350 / 100	56	**IB0016***
Cable 2 m · Output function ⎓ · AC/DC · Wiring diagram no. 9									
	40 x 12 x 26	2 f	PBT	20...250	IP67	25 / 50	350 / 100	69	**IN0073***
	40 x 12 x 26	4 nf	PBT	20...250	IP67	25 / 50	350 / 100	69	**IN0081***
Cable 2 m · Output function ⏚ · AC/DC · Wiring diagram no. 10									
	40 x 12 x 26	2 f	PBT	20...250	IP67	25 / 50	350 / 100	69	**IN0077***
	40 x 12 x 26	4 nf	PBT	20...250	IP67	25 / 50	350 / 100	69	**IN0085***
Terminals · Output function ⎓ / ⏚ · AC/DC · Wiring diagram no. 11									
	40 x 40 x 120	15 f	PPE	20...250	IP65	20 / 55	350 / 100	72	**IM0011***
	40 x 40 x 120	20 nf	PPE	20...250	IP65	20 / 55	350 / 100	72	**IM0010***
1/2" connector · Output function ⎓ · AC/DC · Wiring diagram no. 12									
	40 x 40 x 66	35 nf	PPE	20...250	IP67	20 / 50	350 / 100	82	**IM0049***
M12 connector · Output function ⎓ · AC/DC · Wiring diagram no. 12									
	40 x 40 x 66	20 f	PPE	20...250	IP67	25 / 140	350 / 100	83	**IM0054***
	40 x 40 x 66	35 nf	PPE	20...250	IP67	20 / 50	350 / 100	83	**IM0053***

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f AC / DC [Hz]	I_{load} AC / DC [mA]	Draw-ing no.	Order no.
Terminals · Output function ⎓ / ⏚ · AC/DC · Wiring diagram no. 33									
	90 x 60 x 40	40 nf	PPE	20...250	IP65	10	350 / 100	74	**IC0003***
Cable 2 m · Output function ⎓ · AC/DC · Wiring diagram no. 9									
	120 x 80 x 30	50 nf	modified PPE	20...250	IP65	25 / 35	350 / 100	75	**ID0014***
M12 connector · Output function ⎓ · AC/DC · Wiring diagram no. 12									
	92 x 80 x 40	50 f	modified PPE	20...250	IP67	25	350 / 100	84	**ID0049***
Terminals · Output function ⎓ / ⏚ · AC/DC · Wiring diagram no. 33									
	105 x 80 x 40	60 nf	modified PPE	20...250	IP65	4	350 / 100	76	**ID0013***

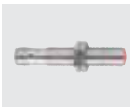
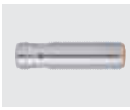
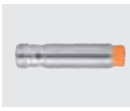
f = flush / nf = non flush

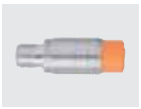
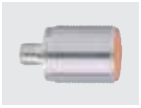
*** Note for AC and AC/DC units**

Miniature fuse to IEC60127-2 sheet 1, ≤ 2 A (fast acting). Recommendation: check the unit for reliable function after a short circuit.

Sensors with increased sensing range for industrial automation

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Draw-ing no.	Order no.
M8 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	M12 / L = 46	4 f	brass	10...36	IP67	700	100	85	**IFS210**
	M12 / L = 51	7 nf	brass	10...36	IP67	700	100	86	**IFS211**
M12 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	M12 / L = 45	4 f	brass	10...36	IP67	700	100	87	**IFS204**
	M12 / L = 50	7 nf	brass	10...36	IP67	700	100	88	**IFS205**
	M12 / L = 70	4 f	brass	10...36	IP67	700	100	89	**IFS212**
	M12 / L = 70	7 nf	brass	10...36	IP67	700	100	90	**IFS213**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M12 / L = 45	4 f	brass	10...36	IP67	700	100	87	**IFS206**
	M12 / L = 50	7 nf	brass	10...36	IP67	700	100	88	**IFS207**
M12 connector · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M12 / L = 70	4 f	brass	10...30	IP67	500	100	89	**IFS208**
	M12 / L = 70	7 nf	brass	10...30	IP67	500	100	90	**IFS209**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 34									
	M12 / L = 45	4 f	brass	10...30	IP67	700	100	87	**IFS200**
	M12 / L = 50	7 nf	brass	10...30	IP67	700	100	88	**IFS201**
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 46	8 f	brass	10...36	IP67	400	100	91	**IGS210**
	M18 / L = 52	12 nf	brass	10...36	IP67	400	100	92	**IGS211**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 46	8 f	brass	10...36	IP67	400	100	93	**IGS204**
	M18 / L = 51	12 nf	brass	10...36	IP67	300	100	94	**IGS205**
	M18 / L = 70	8 f	brass	10...36	IP67	400	100	95	**IGS212**
	M18 / L = 70	12 nf	brass	10...36	IP67	300	100	96	**IGS213**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M18 / L = 46	8 f	brass	10...36	IP67	400	100	93	**IGS206**
	M18 / L = 51	12 nf	brass	10...36	IP67	300	100	94	**IGS207**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M18 / L = 70	8 f	brass	10...30	IP67	400	100	95	**IGS208**
	M18 / L = 70	12 nf	brass	10...30	IP67	300	100	96	**IGS209**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 34									
	M18 / L = 46	8 f	brass	10...30	IP67	300	100	93	**IGS200**
	M18 / L = 51	12 nf	brass	10...30	IP67	250	100	94	**IGS201**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M30 / L = 50	15 f	brass	10...36	IP67	100	100	97	**IIS204**
	M30 / L = 50	22 nf	brass	10...36	IP67	100	100	98	**IIS205**
	M30 / L = 70	15 f	high-grade st. steel	10...36	IP67	100	100	99	**IIS210**
	M30 / L = 70	22 nf	high-grade st. steel	10...36	IP67	100	100	100	**IIS211**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M30 / L = 50	15 f	brass	10...36	IP67	100	100	97	**IIS208**
	M30 / L = 50	22 nf	brass	10...36	IP67	100	100	98	**IIS209**
M12 connector · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M30 / L = 70	15 f	brass	10...30	IP67	100	100	99	**IIS206**
	M30 / L = 70	22 nf	brass	10...30	IP67	100	100	100	**IIS207**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	100	200	101	**IM5115**
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	200	200	101	**IM5128**
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	200	200	102	**IM5119**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	80	200	101	**IM5116**
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	200	200	101	**IM5130**
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	200	200	102	**IM5120**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67	60	200	101	**IM5117**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67	200	200	101	**IM5131**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67	200	200	102	**IM5129**
M12 connector · Output function ⎍+⎍ · DC PNP · Wiring diagram no. 13									
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	100	200	101	**IM5123**
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	200	200	101	**IM5132**
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	200	200	102	**IM5124**
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	80	200	101	**IM5134**
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	200	200	101	**IM5133**
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	200	200	102	**IM5125**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67	60	200	101	**IM5136**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67 / IP69K	200	200	101	**IM5135**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67	200	200	102	**IM5126**
M12 connector · AS-i · Wiring diagram no. 14									
	40 x 40 x 54	15 f	PBT	26.5...31.6	IP67	100	–	101	**IM5118**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	92 x 80 x 40	50 f	PPE	10...36	IP67	70	250	84	**ID5055**
M12 connector · Output function ⎍+⎍ · DC PNP · Wiring diagram no. 13									
	92 x 80 x 40	50 f	PPE	10...36	IP67	70	250	84	**ID5058**
M12 connector · Output function normally open / closed programmable *) · DC PNP · Wiring diagram no. 2									
	105 x 80 x 40	60 nf	PPE	10...36	IP65	100	250	103	**ID5046**

f = flush / nf = non flush

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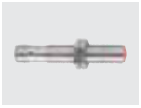
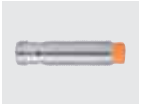
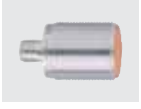
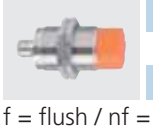
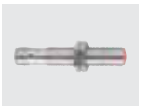
Sensors with increased shock and vibration resistance

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 45	2 f	brass	10...36	IP67	700	100	87	**IFS214**
	M12 / L = 70	2 f	brass	10...36	IP67	700	100	89	**IFS216**
	M12 / L = 50	4 nf	brass	10...36	IP67	700	100	88	**IFS215**
	M12 / L = 70	4 nf	brass	10...36	IP67	700	100	90	**IFS217**
	M18 / L = 46	5 f	brass	10...36	IP67	400	100	93	**IGS214**
	M18 / L = 70	5 f	brass	10...36	IP67	400	100	95	**IGS216**
	M18 / L = 51	8 nf	brass	10...36	IP67	300	100	94	**IGS215**
	M18 / L = 70	8 nf	brass	10...36	IP67	300	100	96	**IGS217**
	M30 / L = 50	10 f	high-grade st. steel	10...36	IP67	100	100	97	**IIS212**
	M30 / L = 70	10 f	high-grade st. steel	10...36	IP67	100	100	99	**IIS214**
	M30 / L = 50	15 nf	high-grade st. steel	10...36	IP67	100	100	98	**IIS213**
	M30 / L = 70	15 nf	high-grade st. steel	10...36	IP67	100	100	100	**IIS215**

f = flush / nf = non flush

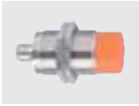
Sensors with analogue output 4...20 mA

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function 4...20 mA analogue · DC analogue · Wiring diagram no. 15									
	M12 / L = 70	0.2...2 f	brass	15...30	IP67	–	–	89	**IF6028**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function 4...20 mA analogue · DC analogue · Wiring diagram no. 15									
	M12 / L = 70	0.4...4 nf	brass	15...30	IP67	–	–	90	**IF6030**
	M18 / L = 60	0.5...5 f	brass	15...30	IP67	–	–	104	**IG6086**
	M18 / L = 60	0.8...8 nf	brass	15...30	IP67	–	–	105	**IG6083**
	M30 / L = 70	1.0...10 f	brass	15...30	IP67	–	–	99	**II5916**
	M30 / L = 70	1.0...15 nf	brass	15...30	IP67	–	–	100	**II5913**
	40 x 40 x 54	1...15 f	PA (polyamide)	15...30	IP67	–	–	101	**IM5139**
	40 x 40 x 54	1...26 nf	PA (polyamide)	15...30	IP67	–	–	101	**IM5141**

f = flush / nf = non flush

Sensors with analogue output 0...10 V

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function 0...10 V analogue · DC analogue · Wiring diagram no. 15									
	M12 / L = 70	0.2...2 f	brass	15...30	IP67	–	–	89	**IF6029**
	M12 / L = 70	0.4...4 nf	brass	15...30	IP67	–	–	90	**IF6031**
	M18 / L = 60	0.5...5 f	brass	15...30	IP67	–	–	104	**IG6087**
	M18 / L = 60	0.8...8 nf	brass	15...30	IP67	–	–	105	**IG6084**
	M30 / L = 70	1.0...10 f	brass	15...30	IP67	–	–	99	**II5917**
	M30 / L = 70	1.0...15 nf	brass	15...30	IP67	–	–	100	**II5914**
	40 x 40 x 54	1...15 f	PA (polyamide)	15...30	IP67	–	–	101	**IM5140**
	40 x 40 x 54	1...26 nf	PA (polyamide)	15...30	IP67	–	–	101	**IM5142**

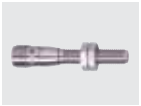
f = flush / nf = non flush

Photoelectric sensors

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 63	50 f	high-grade st. steel	10...30	IP68	1600	100	106	**JAC201**
	M12 / L = 63	50 f	high-grade st. steel	10...30	IP68 / IP69K	1600	100	106	**JAT201**

f = flush / nf = non flush

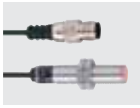
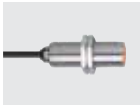
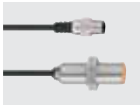
Full-metal sensors for oils and coolants

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M8 / L = 50	2 f	stainless steel	10...36	IP67	100	100	107	**IEC201**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M8 / L = 60	2 f	high-grade st. steel	10...36	IP67 / IP68	100	100	108	**IEC200**
	M12 / L = 60	3 f	high-grade st. steel	10...36	IP67 / IP68	100	100	109	**IFC258**
	M18 / L = 70	5 f	high-grade st. steel	10...36	IP67 / IP68	100	100	51	**IGC248**
	M30 / L = 70	10 f	high-grade st. steel	10...36	IP67 / IP68	50	100	110	**IIC224**

f = flush / nf = non flush

Sensors for oils and coolants

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 35									
	M8 / L = 42	2 f	brass	10...55	IP67	1000	100	111	**IE9203**
Cable with connector 0.8 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	M8 / L = 42	2 f	brass	10...55	IP67	1000	100	112	**IE9902**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	M8 / L = 69	1 f	brass	5...36	IP65	2000	200	40	**IE9940**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Draw-ing no.	Order no.
Cable 2 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 35									
	M12 / L = 54	2 f	brass	10...55	IP67	800	100	113	**IF9222**
Cable with connector 0.8 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	M12 / L = 54	2 f	brass	10...55	IP67	800	100	114	**IF9920**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 34									
	M12 / L = 45	4 f	brass	10...30	IP68	700	100	87	**IFC200**
	M12 / L = 50	7 nf	brass	10...30	IP68	700	100	88	**IFC201**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 36									
	M12 / L = 45	4 f	brass	10...30	IP68	700	100	87	**IFC202**
	M12 / L = 50	7 nf	brass	10...30	IP68	700	100	88	**IFC203**
M12 connector · Output function ⎍ / ⎍ · DC PNP/NPN · Wiring diagram no. 30									
	M12 / L = 60	7 nf	brass	10...36	IP68	500	100	115	**IFC235**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	M12 / L = 60	2 f	brass	10...55	IP67	800	100	116	**IF9924**
M12 connector · Output function ⎍ / ⎍ · DC · Wiring diagram no. 30									
	M12 / L = 60	4 f	brass	10...36	IP68	700	100	109	**IFC234**
Cable 2 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 17									
	M18 / L = 54	5 f	brass	10...55	IP67	700	400	117	**IG5682**
Cable with connector 0.8 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	M18 / L = 58	5 f	brass	10...55	IP67	700	400	118	**IG9984**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 34									
	M18 / L = 46	8 f	brass	10...30	IP68	400	100	93	**IGC200**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 34									
	M18 / L = 51	12 nf	brass	10...30	IP68	250	100	94	**IGC201**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 36									
	M18 / L = 46	8 f	brass	10...30	IP68	300	100	93	**IGC202**
	M18 / L = 51	12 nf	brass	10...30	IP68	250	100	94	**IGC203**
M12 connector · Output function ⎍ / ⎍ · DC PNP/NPN · Wiring diagram no. 30									
	M18 / L = 70	8 f	brass	10...30	IP68	400	100	95	**IGC222**
	M18 / L = 70	12 nf	brass	10...36	IP68	300	100	96	**IGC223**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	M18 / L = 65	5 f	brass	10...55	IP67	700	400	119	**IG9983**
M12 connector · Output function ⎍ / ⎍ · DC PNP/NPN · Wiring diagram no. 30									
	M30 / L = 70	15 f	brass	10...30	IP68	100	100	99	**IIC208**
	M30 / L = 70	22 nf	brass	10...30	IP68	100	100	100	**IIC209**
Cable with connector 0.8 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	26 x 26 x 26	10 f	polyamide	10...36	IP67	250	100	120	**IO5017**
Cable with connector 0.15 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	26 x 26 x 26	10 f	polyamide	10...36	IP67	250	100	120	**IO5018**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 16									
	26 x 26 x 43	10 f	polyamide	10...36	IP67	250	100	121	**IO5016**
Cable with connector 0.8 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 37									
	40 x 40 x 66	15 f	PA (polyamide)	10...36	IP67	200	100	122	**IM5137**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable with connector 0.8 m · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 38									
	40 x 40 x 66	15 f	PA (polyamide)	10...36	IP67	200	100	122	**IM5138**
M12 connector · Output function ⎍ · DC PNP/NPN · Wiring diagram no. 38									
	40 x 40 x 54	15 f	PA (polyamide)	10...36	IP67	200	100	123	**IM5127**

f = flush / nf = non flush

Sensors for oils and coolants with ceramic sensing face

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M8 / L = 50	2 f	high-grade st. steel	10...36	IP67	1000	200	37	**IE5381**
	M8 / L = 50	4 nf	high-grade st. steel	10...36	IP67	700	200	124	**IE5382**
	M12 / L = 45	2 f	brass	10...36	IP68	700	200	87	**IFC239**
	M12 / L = 60	2 f	brass	10...36	IP68	700	200	109	**IFC243**
	M12 / L = 70	2 f	brass	10...36	IP68	700	200	89	**IFC241**
	M12 / L = 45	4 f	brass	10...36	IP68	700	100	87	**IFC206**
	M12 / L = 45	4 f	brass	10...36	IP68	700	100	87	**IFC204**
	M12 / L = 60	4 f	brass	10...36	IP68	700	200	109	**IFC229**
	M12 / L = 70	4 f	brass	10...36	IP68	700	100	89	**IFC237**
	M12 / L = 50	4 nf	brass	10...36	IP68	700	200	88	**IFC240**
	M12 / L = 60	4 nf	brass	10...36	IP68	700	200	115	**IFC244**
	M12 / L = 70	4 nf	brass	10...36	IP68	700	200	90	**IFC242**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 50	7 nf	brass	10...36	IP68	700	100	88	**IFC205**
	M12 / L = 60	7 nf	brass	10...36	IP68	700	200	115	**IFC230**
	M12 / L = 70	7 nf	brass	10...36	IP68	700	100	90	**IFC238**
M12 connector · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M12 / L = 70	4 f	brass	10...30	IP68	500	100	89	**IFC210**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M12 / L = 45	4 f	brass	10...36	IP68	700	100	87	**IFC209**
	M12 / L = 45	4 f	brass	10...36	IP68	700	100	87	**IFC207**
	M12 / L = 50	7 nf	brass	10...36	IP68	700	100	88	**IFC208**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 46	5 f	brass	10...36	IP68	400	200	93	**IGC226**
	M18 / L = 60	5 f	brass	10...36	IP68	400	200	104	**IGC230**
	M18 / L = 70	5 f	brass	10...36	IP68	400	200	95	**IGC228**
	M18 / L = 46	8 f	brass	10...36	IP68	400	100	93	**IGC206**
	M18 / L = 46	8 f	brass	10...36	IP68	400	100	93	**IGC204**
	M18 / L = 60	8 f	brass	10...36	IP68	400	200	125	**IGC221**
	M18 / L = 51	8 nf	brass	10...36	IP68	300	200	94	**IGC227**
	M18 / L = 70	8 f	brass	10...36	IP68	400	100	95	**IGC224**
	M18 / L = 60	8 nf	brass	10...36	IP68	300	200	105	**IGC231**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Draw-ing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 70	8 nf	brass	10...36	IP68	300	200	96	**IGC229**
	M18 / L = 51	12 nf	brass	10...36	IP68	300	100	94	**IGC205**
	M18 / L = 60	12 nf	brass	10...36	IP68	300	200	105	**IGC220**
	M18 / L = 70	12 nf	brass	10...36	IP68	300	100	96	**IGC225**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M18 / L = 46	8 f	brass	10...36	IP68	400	100	93	**IGC209**
	M18 / L = 46	8 f	brass	10...36	IP68	400	100	93	**IGC207**
	M18 / L = 51	12 nf	brass	10...36	IP68	300	100	94	**IGC208**
M12 connector · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M18 / L = 70	8 f	brass	10...30	IP68	400	100	95	**IGC210**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M30 / L = 50	10 f	high-grade st. steel	10...36	IP68	100	200	97	**IIC212**
	M30 / L = 60	10 f	high-grade st. steel	10...36	IP68	100	200	126	**IIC216**
	M30 / L = 70	10 f	high-grade st. steel	10...36	IP68	100	200	99	**IIC214**
	M30 / L = 50	15 f	brass	10...36	IP68	100	100	97	**IIC200**
	M30 / L = 60	15 f	brass	10...36	IP68	100	200	126	**IIC206**
	M30 / L = 70	15 f	high-grade st. steel	10...36	IP68	100	100	99	**IIC210**
	M30 / L = 50	15 nf	high-grade st. steel	10...36	IP68	100	200	98	**IIC213**
	M30 / L = 60	15 nf	high-grade st. steel	10...36	IP68	100	200	127	**IIC217**
	M30 / L = 70	15 nf	high-grade st. steel	10...36	IP68	100	200	100	**IIC215**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M30 / L = 50	22 nf	brass	10...36	IP68	100	100	98	**IIC201**
	M30 / L = 60	22 nf	brass	10...36	IP68	100	200	127	**IIC207**
	M30 / L = 70	22 nf	high-grade st. steel	10...36	IP68	100	100	100	**IIC211**

f = flush / nf = non flush

Sensors for oils and coolants with correction factor K = 1

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M8 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M8 / L = 65	1.5 f	high-grade st. steel	10...30	IP67	2000	200	128	**IE5390**
	M8 / L = 65	4 nf	high-grade st. steel	10...30	IP67	2000	200	129	**IE5391**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 65	8 nf	high-grade st. steel	10...30	IP68	> 2000	200	130	**IFC246**
	M18 / L = 65	5 f	high-grade st. steel	10...30	IP68	> 2000	200	131	**IGC232**
	M18 / L = 65	12 nf	high-grade st. steel	10...30	IP68	> 2000	200	132	**IGC233**
	M30 / L = 65	10 f	high-grade st. steel	10...30	IP68	1000	200	133	**IIC218**
	M30 / L = 65	22 nf	high-grade st. steel	10...30	IP68	1000	200	134	**IIC219**

f = flush / nf = non flush

Sensors for oils and coolants for the detection of ferrous metals

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 60	2.5 f	stainless steel	10...36	IP68	100	100	109	**IFC263**
	M18 / L = 70	4.5 f	stainless steel	10...36	IP68	100	100	135	**IGC249**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M12 / L = 60	2.5 f	stainless steel	10...36	IP68	100	100	109	**IFC264**
	M18 / L = 70	4.5 f	stainless steel	10...36	IP68	100	100	135	**IGC250**

f = flush / nf = non flush

Sensors for oils and coolants, AS-i system

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · AS-i · Wiring diagram no. 14									
	M12 / L = 60	4 f	high-grade st. steel	26.5...31.6	IP68	100	–	109	**IFC247**
	M12 / L = 60	7 nf	high-grade st. steel	26.5...31.6	IP68	100	–	115	**IFC248**
	M18 / L = 60	8 f	high-grade st. steel	26.5...31.6	IP68	100	–	125	**IGC234**
	M18 / L = 60	12 nf	high-grade st. steel	26.5...31.6	IP68	100	–	105	**IGC235**
	M30 / L = 60	14 f	high-grade st. steel	26.5...31.6	IP68	100	–	126	**IIC220**
	M30 / L = 60	22 nf	high-grade st. steel	26.5...31.6	IP68	100	–	127	**IIC221**

f = flush / nf = non flush

Sensors for mobile applications

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable 6 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M12 / L = 79	4 f	stainless steel	10...36	IP67 / IP69K	400	100	136	**IFM207**
	M12 / L = 79	4 f	stainless steel	10...60	IP67 / IP69K	400	200	136	**IFM209**
	M12 / L = 79	7 nf	stainless steel	10...36	IP67 / IP69K	300	100	137	**IFM208**
	M12 / L = 79	7 nf	high-grade st. steel	10...60	IP67 / IP69K	300	200	137	**IFM210**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 70	4 f	high-grade st. steel	10...36	IP67 / IP69K	400	100	138	**IFM203**
	M12 / L = 70	4 f	high-grade st. steel	10...60	IP67 / IP69K	400	200	138	**IFM205**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 70	7 nf	high-grade st. steel	10...36	IP67 / IP69K	300	100	139	**IFM204**
	M12 / L = 70	7 nf	stainless steel	10...60	IP67 / IP69K	300	200	139	**IFM206**
Cable 6 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M18 / L = 81	8 f	stainless steel	10...36	IP67 / IP69K	200	100	140	**IGM202**
	M18 / L = 81	8 f	stainless steel	10...60	IP67 / IP69K	200	200	140	**IGM206**
	M18 / L = 81	12 nf	stainless steel	10...36	IP67 / IP69K	200	100	141	**IGM203**
	M18 / L = 81	12 nf	stainless steel	10...60	IP67 / IP69K	200	200	141	**IGM207**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 70	8 f	stainless steel	10...36	IP67 / IP69K	200	100	135	**IGM200**
	M18 / L = 70	8 f	stainless steel	10...60	IP67 / IP69K	200	200	135	**IGM204**
	M18 / L = 70	12 nf	stainless steel	10...36	IP67 / IP69K	200	100	142	**IGM201**
	M18 / L = 70	12 nf	stainless steel	10...60	IP67 / IP69K	200	200	142	**IGM205**
Cable 6 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M30 / L = 81	12 f	stainless steel	10...36	IP67 / IP69K	100	100	143	**IIM202**
	M30 / L = 81	12 f	stainless steel	10...60	IP67 / IP69K	100	200	143	**IIM210**
	M30 / L = 81	22 nf	stainless steel	10...36	IP67 / IP69K	100	100	144	**IIM203**
	M30 / L = 81	22 nf	stainless steel	10...60	IP67 / IP69K	100	200	144	**IIM211**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M30 / L = 70	12 f	stainless steel	10...36	IP67 / IP69K	100	100	99	**IIM200**
	M30 / L = 70	12 f	stainless steel	10...60	IP67 / IP69K	100	200	99	**IIM208**
	M30 / L = 70	22 nf	stainless steel	10...36	IP67 / IP69K	100	100	100	**IIM201**
	M30 / L = 70	22 nf	stainless steel	10...60	IP67 / IP69K	100	200	100	**IIM209**
Cable 3 m · Output function ⎍ · DC PNP · Wiring diagram no. 18									
	40 x 12 x 26	4 nf	PBT	10...36	IP67	70	–	69	**IN5281**
Cable 3 m · Output function ⎍ · DC PNP · Wiring diagram no. 19									
	40 x 12 x 26	4 nf	PBT	10...36	IP67	70	–	69	**IN5282**

f = flush / nf = non flush

Full-metal sensors with non-stick coating against weld spatter

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M8 / L = 60	2 f	stainless steel	10...36	IP67 / IP68	100	100	108	**IER200**
	M12 / L = 60	4 f	high-grade st. steel	10...36	IP67	2	100	109	**IFR200**
	M18 / L = 70	6 f	high-grade st. steel	10...36	IP67	2	100	51	**IGR200**
	M30 / L = 70	12 f	high-grade st. steel	10...36	IP67	2	100	110	**IIR200**

f = flush / nf = non flush

Electromagnetic field immune sensors with correction factor K = 1

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 65	3 f	brass	10...30	IP67	4000	200	145	**IFW200**
	M12 / L = 65	8 nf	brass	10...30	IP67	4000	200	146	**IFW201**
	M18 / L = 65	5 f	brass	10...30	IP67	2000	200	131	**IGW200**
	M18 / L = 65	12 nf	brass	10...30	IP67	2000	200	132	**IGW201**
	M30 / L = 65	10 f	brass	10...30	IP67	1000	200	133	**IIW200**
	M30 / L = 65	22 nf	brass	10...30	IP67	1000	200	147	**IIW201**
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	200	200	102	**IM5119**
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	200	200	102	**IM5120**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67	200	200	102	**IM5129**
M12 connector · Output function ⎍+⎍ · DC PNP · Wiring diagram no. 13									
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	200	200	102	**IM5124**
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	200	200	102	**IM5125**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67	200	200	102	**IM5126**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍⎓+⎍⏚ · DC PNP · Wiring diagram no. 13									
	40 x 40 x 54	20 f	PA (polyamide)	10...36	IP67	200	200	101	**IM5132**
	40 x 40 x 54	35 nf	PA (polyamide)	10...36	IP67	200	200	101	**IM5133**
	40 x 40 x 54	40 nf	PA (polyamide)	10...36	IP67 / IP69K	200	200	101	**IM5135**

f = flush / nf = non flush

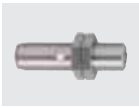
Electromagnetic field immune sensors

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍⎓ · DC PNP · Wiring diagram no. 2									
	M12 / L = 60	2 f	brass	10...36	IP67	1000	250	148	**IF5670**
	M12 / L = 60	2 f	brass	10...36	IP67	1000	250	148	**IF5750**
	M12 / L = 60	4 nf	brass	10...36	IP67	1000	250	149	**IF5675**
	M12 / L = 60	4 nf	brass	10...36	IP67	1000	250	149	**IF5751**
	M18 / L = 60	5 f	brass	10...36	IP67	700	250	104	**IG5647**
	M18 / L = 60	5 f	brass	10...36	IP67	700	250	104	**IG5667**
	M30 / L = 60	10 f	brass	10...36	IP67	250	250	150	**II5503**
	40 x 40 x 118	15 f	modified PPE	10...60	IP67	50	200	151	**IV5025**
M12 connector · Output function ⎍⎓+⎍⏚ · DC PNP · Wiring diagram no. 13									
	92 x 80 x 40	50 f	PPE	10...36	IP67	70	250	84	**ID5059**

f = flush / nf = non flush

Sensors for hygienic and wet areas

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍⎓ · DC PNP · Wiring diagram no. 2									
	M8 / L = 70	1 f	high-grade st. steel	10...36	IP67	2000	200	152	**IE5215**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M8 / L = 55	2 nf	high-grade st. steel	10...36	IP67	2000	200	153	**IE5295**
	M12 / L = 44	2 f	high-grade st. steel	10...36	IP67	1200	250	154	**IF5815**
	M12 / L = 59	2 f	high-grade st. steel	10...36	IP67	1100	200	155	**IF5514**
	M12 / L = 83	2 f	high-grade st. steel	10...36	IP67	800	250	45	**IF5851**
	M12 / L = 44	4 nf	high-grade st. steel	10...36	IP67	1400	150	156	**IF5796**
	M12 / L = 59	4 nf	high-grade st. steel	10...36	IP67	1400	250	157	**IF5813**
	M12 / L = 83	4 nf	high-grade st. steel	10...36	IP67	400	250	46	**IF5594**
M12 connector · Output function ⎍ / ⏄ · DC PNP/NPN · Wiring diagram no. 30									
	M12 / L = 83	2 f	high-grade st. steel	10...55	IP67	1100	400	45	**IF5759**
	M12 / L = 83	4 nf	high-grade st. steel	10...55	IP67	1500	300	46	**IF5760**
Cable 2 m · Output function ⎍+⏄ · DC PNP · Wiring diagram no. 20									
	M18 / L = 80	8 nf	high-grade st. steel	10...36	IP67	320	250	50	**IG5202**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 76	5 f	high-grade st. steel	10...36	IP67	500	250	158	**IG5813**
	M18 / L = 90	8 nf	high-grade st. steel	10...36	IP67	300	250	159	**IG5602**
M12 connector · Output function ⎍ / ⏄ · DC PNP/NPN · Wiring diagram no. 30									
	M18 / L = 90	5 f	high-grade st. steel	10...55	IP67	700	400	160	**IG5806**
	M18 / L = 77	8 nf	high-grade st. steel	10...55	IP67	300	300	161	**IG5772**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M30 / L = 92	10 f	high-grade st. steel	10...36	IP67	250	250	162	**II5689**
	M30 / L = 92	15 nf	high-grade st. steel	10...36	IP67	200	250	163	**II5776**
M12 connector · Output function ⎍ / ⎍ · DC PNP/NPN · Wiring diagram no. 30									
	M30 / L = 92	10 f	high-grade st. steel	10...55	IP67	450	400	162	**II5751**
	M30 / L = 78	15 nf	high-grade st. steel	10...55	IP67	200	400	64	**II5733**

f = flush / nf = non flush

Full-metal sensors for hygienic and wet areas

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 60	3 f	high-grade st. steel	10...36	IP68 / IP69K	100	100	164	**IFT243**
	M12 / L = 60	3 f	high-grade st. steel	10...36	IP68 / IP69K	100	100	109	**IFT240**
	M18 / L = 70	5 f	high-grade st. steel	10...36	IP68 / IP69K	100	100	51	**IGT247**
	M30 / L = 70	10 f	high-grade st. steel	10...36	IP68 / IP69K	50	100	110	**IIT228**

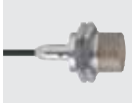
f = flush / nf = non flush

Sensors for hygienic and wet areas with increased sensing range

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 45	4 f	high-grade st. steel	10...36	IP68 / IP69K	800	100	87	**IFT203**
	M12 / L = 50	7 nf	high-grade st. steel	10...36	IP68 / IP69K	800	100	165	**IFT200**
	M12 / L = 70	4 f	high-grade st. steel	10...36	IP68 / IP69K	700	100	89	**IFT216**

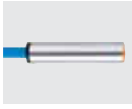
Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 70	7 nf	high-grade st. steel	10...36	IP68 / IP69K	800	100	90	**IFT217**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M12 / L = 45	4 f	high-grade st. steel	10...36	IP68 / IP69K	800	100	87	**IFT204**
	M12 / L = 50	7 nf	high-grade st. steel	10...36	IP68 / IP69K	800	100	165	**IFT201**
M12 connector · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M12 / L = 70	4 f	high-grade st. steel	10...36	IP68 / IP69K	500	100	89	**IFT205**
	M12 / L = 70	7 nf	high-grade st. steel	10...30	IP68 / IP69K	700	100	139	**IFT202**
	Ø 12 / L = 70	7 nf	high-grade st. steel	10...30	IP68 / IP69K	700	100	166	**IFT210**
Cable 6 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M12 / L = 50	4 f	high-grade st. steel	10...36	IP68 / IP69K	800	100	167	**IFT206**
	M12 / L = 61	7 nf	high-grade st. steel	10...36	IP68 / IP69K	800	100	168	**IFT208**
Cable 6 m · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 27									
	Ø 12 / L = 79	7 nf	high-grade st. steel	10...30	IP68 / IP69K	700	100	169	**IFT211**
Cable 10 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M12 / L = 56	4 f	high-grade st. steel	10...36	IP68 / IP69K	800	100	170	**IFT207**
	M12 / L = 61	7 nf	high-grade st. steel	10...36	IP68 / IP69K	800	100	168	**IFT209**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 46	8 f	high-grade st. steel	10...36	IP68 / IP69K	600	100	93	**IGT203**
	M18 / L = 51	12 nf	high-grade st. steel	10...36	IP68 / IP69K	300	100	171	**IGT200**

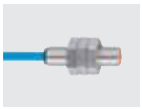
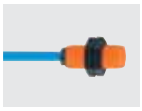
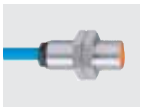
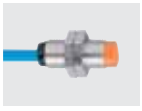
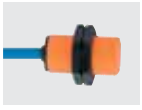
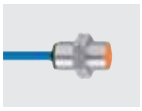
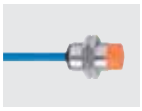
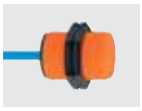
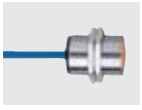
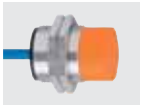
Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 70	8 f	high-grade st. steel	10...36	IP68 / IP69K	400	100	95	**IGT219**
	M18 / L = 70	12 nf	high-grade st. steel	10...36	IP68 / IP69K	300	100	96	**IGT220**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M18 / L = 46	8 f	high-grade st. steel	10...36	IP68 / IP69K	600	100	93	**IGT204**
	M18 / L = 51	12 nf	high-grade st. steel	10...36	IP68 / IP69K	300	100	171	**IGT201**
M12 connector · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M18 / L = 70	8 f	high-grade st. steel	10...30	IP68 / IP69K	400	100	135	**IGT205**
	M18 / L = 70	12 nf	high-grade st. steel	10...30	IP68 / IP69K	300	100	172	**IGT202**
	Ø 18 / L = 70	12 nf	high-grade st. steel	10...30	IP68 / IP69K	300	100	173	**IGT211**
Cable 6 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M18 / L = 57	8 f	high-grade st. steel	10...36	IP68 / IP69K	600	100	174	**IGT206**
	M18 / L = 62	12 nf	high-grade st. steel	10...36	IP68 / IP69K	300	100	175	**IGT208**
Cable 6 m · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 27									
	Ø 18 / L = 81	12 nf	high-grade st. steel	10...30	IP68 / IP69K	300	100	176	**IGT212**
Cable 10 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M18 / L = 57	8 f	high-grade st. steel	10...36	IP68 / IP69K	600	100	174	**IGT207**
	M18 / L = 60	12 nf	high-grade st. steel	10...36	IP68 / IP69K	300	100	177	**IGT209**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M30 / L = 50	14 f	high-grade st. steel	10...36	IP68 / IP69K	50	100	97	**IIT205**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M30 / L = 50	22 nf	high-grade st. steel	10...36	IP68 / IP69K	100	100	178	**IIT200**
	M30 / L = 70	15 f	high-grade st. steel	10...36	IP68 / IP69K	50	100	99	**IIT212**
	M30 / L = 70	22 nf	high-grade st. steel	10...36	IP68 / IP69K	100	100	100	**IIT213**
M12 connector · Output function ⎍ · 3-wire DC PNP; 2-wire DC PNP/NPN · Wiring diagram no. 28									
	M30 / L = 70	14 f	high-grade st. steel	10...36	IP68 / IP69K	50	100	99	**IIT204**
	M30 / L = 70	22 nf	high-grade st. steel	10...36	IP68 / IP69K	100	100	100	**IIT202**
1/2" connector · Output function ⎍ · AC/DC · Wiring diagram no. 21									
	M30 / L = 70	22 nf	high-grade st. steel	20...140	IP68 / IP69K	25 / 100	200	179	**IIT002**
Cable 6 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M30 / L = 59	22 nf	high-grade st. steel	10...36	IP68 / IP69K	100	100	180	**IIT207**
	M30 / L = 59	14 f	high-grade st. steel	10...36	IP68 / IP69K	100	100	181	**IIT209**
Cable 10 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M30 / L = 59	14 f	high-grade st. steel	10...36	IP68 / IP69K	100	100	181	**IIT206**
	M30 / L = 59	22 nf	high-grade st. steel	10...36	IP68 / IP69K	100	100	180	**IIT208**

f = flush / nf = non flush

Sensors with ATEX approval 1D / 2G

Type	Dimensions [mm]	Sensing range [mm]	Material	$U_{nom.}$ at 1 KΩ [V]	U_b [V]	Internal capacit. [nF]	Internal inductance [µH]	f [Hz]	Drawing no.	Order no.
Cable 2 m · Output function ⏚ · Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW · Wiring diagram no. 22										
	Ø 6.5 / L = 30	1 f	brass	8.2 DC	7.5...30	80	70	2000	182	**NT5001**

Type	Dimensions [mm]	Sensing range [mm]	Material	$U_{nom.}$ at 1 KΩ [V]	U_b [V]	Internal capacit. [nF]	Internal inductance [µH]	f [Hz]	Draw-ing no.	Order no.
Cable 2 m · Output function ⊥ · Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW · Wiring diagram no. 22										
	M8 / L = 30	1 f	brass	8.2 DC	7.5...30	80	70	2000	183	**NE5001**
	M12 / L = 30	2 f	PBT	8.2 DC	7.5...30	140	340	1200	184	**NF5001**
	M12 / L = 30	4 nf	PBT	8.2 DC	7.5...30	140	130	1500	184	**NF5003**
	M12 / L = 30	2 f	brass	8.2 DC	7.5...30	140	340	1200	184	**NF5002**
	M12 / L = 30	4 nf	brass	8.2 DC	7.5...30	140	130	1500	185	**NF5004**
	M18 / L = 33	5 f	PBT	8.2 DC	7.5...30	145	45	720	186	**NG5001**
	M18 / L = 33	8 nf	PBT	8.2 DC	7.5...30	155	50	300	186	**NG5003**
	M18 / L = 33	5 f	brass	8.2 DC	7.5...30	145	45	720	186	**NG5002**
	M18 / L = 33	8 nf	brass	8.2 DC	7.5...30	155	50	300	187	**NG5004**
	M30 / L = 41	10 f	PBT	8.2 DC	7.5...30	145	140	450	188	**NI5001**
	M30 / L = 41	15 nf	PBT	8.2 DC	7.5...30	145	110	200	188	**NI5003**
	M30 / L = 41	10 f	brass	8.2 DC	7.5...30	145	140	450	188	**NI5002**
	M30 / L = 41	15 nf	brass	8.2 DC	7.5...30	145	110	200	189	**NI5004**
	28 x 10 x 16	2 f	PBT	8.2 DC	7.5...30	80	110	800	190	**NS5002**
	40 x 12 x 26	2 f	PBT	8.2 DC	7.5...30	110	135	800	191	**NN5001**
	40 x 12 x 26	4 nf	PBT	8.2 DC	7.5...30	110	135	400	191	**NN5002**

f = flush / nf = non flush

Sensors with ATEX approval 1D / 1G / 2G

Type	Dimensions [mm]	Sensing range [mm]	Material	$U_{nom.}$ at 1 KΩ [V]	U_b [V]	Internal capacit. [nF]	Internal inductance [µH]	f [Hz]	Draw-ing no.	Order no.
M12 connector · Output function ⊥ · Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW · Wiring diagram no. 23										
	M12 / L = 45	4 f	brass	8.2 DC	7.5...30	210	115	700	87	**NF501A**

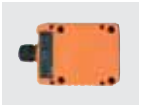
Type	Dimensions [mm]	Sensing range [mm]	Material	$U_{nom.}$ at 1 KΩ [V]	U_b [V]	Internal capacit. [nF]	Internal inductance [µH]	f [Hz]	Draw-ing no.	Order no.
M12 connector · Output function ⎍ · Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW · Wiring diagram no. 23										
	M12 / L = 50	7 nf	brass	8.2 DC	7.5...30	210	145	700	88	**NF500A**
	M18 / L = 46	8 f	brass	8.2 DC	7.5...30	200	190	400	93	**NG501A**
	M18 / L = 51	12 nf	brass	8.2 DC	7.5...30	200	85	300	94	**NG500A**
	M30 / L = 50	15 f	brass	8.2 DC	7.5...30	230	210	100	97	**NI501A**
	M30 / L = 50	22 nf	brass	8.2 DC	7.5...30	250	120	100	98	**NI500A**
M12 connector · Output function ⎍ · Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW · Wiring diagram no. 24										
	40 x 40 x 66	20 f	PPE	8.2 DC	7.5...30	250	450	200	83	**NM500A**
	40 x 40 x 66	35 nf	PPE	8.2 DC	7.5...30	220	710	100	83	**NM501A**

f = flush / nf = non flush

Switching amplifiers with ATEX approval

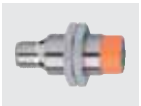
Type	U_b [V]	Power / current consumption [VA] / [mA]	f [Hz]	T_a [°C]	Output	Protection	Draw-ing no.	Order no.
	115	1.0 /	10	-20...60	relay (1 changeover contact)	IP20	192	**N0030A**
	230	1.0 /	10	-20...60	relay (1 changeover contact)	IP20	192	**N0031A**
	115	1.3 /	10	-20...60	relay (1 changeover contact per channel)	IP20	192	**N0032A**
	230	1.3 /	10	-20...60	relay (1 changeover contact per channel)	IP20	192	**N0033A**
	24	/ < 23	10	-20...60	relay (1 changeover contact)	IP20	192	**N0530A**
	24	/ < 50	5000	-20...60	2 transistor outputs PNP (100 mA, short-circuit protection)	IP20	192	**N0531A**
	24	/ < 50	5000	-20...60	2 outputs (optocoupler, bipolar, 100 mA, short-circuit protection)	IP20	192	**N0532A**
	24	/ < 50	10	-20...60	relay (1 changeover contact per channel)	IP20	192	**N0533A**
	24	/ < 50	5000	-20...60	2 transistor outputs PNP (100 mA, short-circuit protection)	IP20	192	**N0534A**

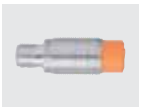
Sensors with ATEX approval 2D

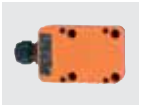
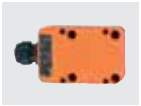
Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 25									
	M30 / L = 70	14 f	high-grade st. steel	10...36	IP67	100	40	99	**IIT23A**
Terminals · Output function ⎍ / ⎍ · DC PNP · Wiring diagram no. 39									
	105 x 80 x 40	60 nf	PPE	10...36	IP65	4	40	193	**ID501A**

f = flush / nf = non flush

Sensors with ATEX approval 3D

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M12 / L = 35	2 f	brass	10...36	IP67	1500	150	41	**IF501A**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M12 / L = 45	4 f	high-grade st. steel	10...36	IP67	700	100	87	**IFS20A**
	M12 / L = 50	7 nf	high-grade st. steel	10...36	IP67	700	100	88	**IFS21A**
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 4									
	M12 / L = 45	4 f	high-grade st. steel	10...36	IP67	700	100	87	**IFT20A**
Cable 2 m · Output function ⎍ · DC PNP · Wiring diagram no. 1									
	M18 / L = 38	5 f	brass	18...36	IP67	500	150	47	**IG504A**
	M18 / L = 80	8 nf	brass	10...55	IP67	300	250	50	**IG500A**
Cable 2 m · Output function ⎍ · AC/DC · Wiring diagram no. 9									
	M18 / L = 80	8 nf	brass	20...250	IP67	25 / 50	200 / 100	50	**IG000A***
M12 connector · Output function ⎍ · DC PNP · Wiring diagram no. 2									
	M18 / L = 45	8 nf	brass	10...30	IP67	300	100	194	**IG501A**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Draw-ing no.	Order no.
M12 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	M18 / L = 45	8 f	brass	10...30	IP67	250	100	195	**IG503A**
	M18 / L = 89	8 nf	brass	10...36	IP67	300	250	196	**IG505A**
	M18 / L = 46	8 f	brass	10...36	IP67	400	100	93	**IGS20A**
	M18 / L = 46	8 f	high-grade st. steel	10...36	IP67	500	100	93	**IGT20A**
	M18 / L = 51	12 nf	brass	10...36	IP67	300	100	94	**IGS21A**
Cable 6 m · Output function ⎓ · AC/DC · Wiring diagram no. 9									
	M30 / L = 81	15 nf	brass	20...250	IP67	25 / 50	200 / 100	62	**II000A***
M12 connector · Output function ⎓ · DC PNP · Wiring diagram no. 2									
	M30 / L = 50	14 f	high-grade st. steel	10...36	IP67	100	100	97	**IIT20A**
	M30 / L = 50	22 nf	high-grade st. steel	10...36	IP67	100	100	98	**IIT21A**
Cable 2 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	40 x 12 x 26	2 f	PBT	10...36	IP67	1400	250	69	**IN502A**
Cable 10 m · Output function ⎓ · DC PNP · Wiring diagram no. 1									
	40 x 12 x 26	4 nf	PBT	10...36	IP67	1300	250	69	**IN504A**
M12 connector · Output function ⎓+⏚ · DC PNP · Wiring diagram no. 13									
	40 x 40 x 66	35 nf	PPE	10...36	IP67	100	200	197	**IM500A**
	40 x 40 x 66	20 f	PPE	10...36	IP67	200	200	197	**IM501A**
Terminals · Output function ⎓ / ⏚ · AC/DC · Wiring diagram no. 11									
	40 x 40 x 121	15 f	PPE	20...250	IP54	25 / 70	150 / 100	198	**IM000A***
Terminals · Output function ⎓ / ⏚ · DC PNP · Wiring diagram no. 5									
	40 x 40 x 121	20 nf	PPE	10...36	IP54	350	250	198	**IM502A**

Type	Dimensions [mm]	Sensing range [mm]	Material	U_b [V]	Protection	f [Hz]	I_{load} [mA]	Drawing no.	Order no.
Terminals · Output function ⎓ / ⏚ · AC/DC · Wiring diagram no. 33									
	90 x 60 x 40	40 nf	PPE	20...250	IP54	10	200 / 100	199	**IC000A***
Terminals · Output function ⎓ / ⏚ · DC PNP · Wiring diagram no. 32									
	90 x 60 x 40	40 nf	PPE	10...30	IP54	10	250	199	**IC500A**
Terminals · Output function ⎓ / ⏚ · AC/DC · Wiring diagram no. 33									
	105 x 80 x 40	60 nf	PPE	20...250	IP65	4	200 / 100	193	**ID000A***
Terminals · Output function ⎓ / ⏚ · DC PNP · Wiring diagram no. 32									
	105 x 80 x 40	60 nf	PPE	10...36	IP65	100	250	193	**ID500A**

f = flush / nf = non flush

*** Note for AC and AC/DC units**

Miniature fuse to IEC60127-2 sheet 1, ≤ 2 A (fast acting). Recommendation: check the unit for reliable function after a short circuit.

Accessories

Type	Description	Order no.
	Angle bracket · for type M8 · Housing materials: stainless steel	**E10734**
	Angle bracket · for type M12 · Housing materials: stainless steel	**E10735**
	Angle bracket · for type M18 · Housing materials: stainless steel	**E10736**
	Angle bracket · for type M30 · Housing materials: stainless steel	**E10737**
	Mounting bracket · with integrated snap-on rail · for type IDC · Housing materials: stainless steel	**E10730**
	Protective bracket · for cable units · for type IW, KW, OW · Housing materials: stainless steel 316Ti / 1.4571	**E20813**
	Mounting clamp · Ø 6.5 mm · Housing materials: PPE	**E10014**

Type	Description	Order no.
	Mounting clamp · Ø 8 mm · with end stop · for type M8 · Housing materials: PC	**E11521**
	Mounting clamp · Ø 12 mm · Housing materials: PBT	**E10015**
	Mounting clamp · Ø 20 mm · Housing materials: PBT	**E10016**
	Mounting clamp · Ø 34 mm · Housing materials: PBT	**E10017**
	Mounting clamp · Ø 20 mm - Ø 18 mm · with reducing bush · for type M18 · Housing materials: PBT	**E10076**
	Mounting clamp · Ø 34 mm - Ø 30 mm · with reducing bush · for type M30 · Housing materials: PBT	**E10077**
	Mounting clamp · Ø 20 mm · Housing materials: PA	**E10192**
	Mounting clamp · Ø 34 mm · Housing materials: PA	**E10193**
	Mounting clamp · Ø 4 mm · Housing materials: TPE	**E10204**
	Mounting clamp · Ø 8 mm · Housing materials: aluminium black anodised	**E10221**
	Mounting clip · Ø 12 mm · for smooth body switches - Ø 12 mm · Form V · Housing materials: V4A	**E11530**
	Mounting clip · Ø 18 mm · for smooth body switches - Ø 18 mm · Form V · Housing materials: V4A	**E11531**
	Mounting clip · Form O · for type M12 · Housing materials: stainless steel	**E11533**
	Mounting clip · Form O · for type M18 · Housing materials: stainless steel	**E11534**

Type	Description	Order no.
	Mounting adapter · G ¾ - M18 x 1 · for type M18 x 1 · Housing materials: PTFE	**E10698**
	Mounting sleeve · M16 x 1 - Ø 12 mm · with end stop · Knurled nut · for type M12 · Housing materials: steel galvanised, chromium-plated (yellow)	**E11513**
	Mounting sleeve · M22 x 1 - Ø 18 mm · with end stop · Knurled nut · for type M18 · Housing materials: steel galvanised	**E11514**
	Mounting sleeve · M16 x 1 - Ø 12 mm · 45 mm · with end stop · for type M12 · Housing materials: brass nickel-plated	**E10741**
	Mounting sleeve · M24 x 1.5 - Ø 18 mm · 58 mm · with end stop · for type M18 · Housing materials: brass nickel-plated	**E10742**
	Mounting sleeve · M36 x 1.5 - Ø 30 mm · 58 mm · with end stop · for type M30 · Housing materials: brass nickel-plated	**E10743**
	Mounting sleeve · M16 x 1 - Ø 12 mm · 34 mm · with end stop · for type M12 · Housing materials: brass nickel-plated	**E10806**
	Mounting sleeve · M24 x 1.5 - Ø 18 mm · 36 mm · with end stop · for type M18 · Housing materials: brass nickel-plated	**E10807**
	Mounting sleeve · M36 x 1.5 - Ø 30 mm · 36 mm · with end stop · for type M30 · Housing materials: brass nickel-plated	**E10808**
	Mounting sleeve · M12 x 1 - Ø 8 mm · 32 mm · with end stop · for type M8 · Housing materials: brass special coated	**E10848**
	Mounting sleeve · M12 x 1 - Ø 8 mm · 42 mm · with end stop · for type M8 · Housing materials: brass special coated	**E10849**
	Mounting clamp · Ø 12 mm · with end stop · for type M12 · Housing materials: PC	**E11047**
	Mounting clamp · Ø 18 mm · with end stop · for type M18 · Housing materials: PC	**E11048**
	Mounting clamp · Ø 30 mm · with end stop · for type M30 · Housing materials: PC	**E11049**

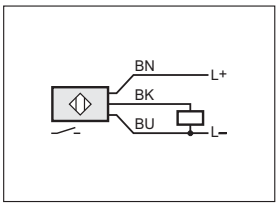
Type	Description	Order no.
	Mounting sleeve · M16 x 1 - Ø 12 mm · with end stop · for type M12 · Housing materials: brass nickel-plated	**E11114**
	Mounting sleeve · M22 x 1 - Ø 18 mm · with end stop · for type M18 · Housing materials: brass white bronze coated	**E11115**
	Mounting set · straight · Clamp mounting · for type IA, IB, KA, KB · Housing materials: clamp: stainless steel / fixture: stainless steel 316Ti / 1.4571	**E11117**
	Mounting set · angled · Clamp mounting · for type IA, IB, KA, KB · Housing materials: clamp: stainless steel / fixture: stainless steel 316Ti / 1.4571	**E11118**
	Mounting set · angled · only for flush-mountable sensors · Clamp mounting · rod mounting Ø 14 mm · for type IME, IMC · Housing materials: clamp: stainless steel / fixture: stainless steel 316Ti / 1.4571	**E11119**
	Mounting set · straight · only for flush-mountable sensors · Clamp mounting · rod mounting Ø 14 mm · for type IME, IMC · Housing materials: clamp: stainless steel / fixture: stainless steel 316Ti / 1.4571	**E11120**
	Mounting set · angled · Clamp mounting · rod mounting Ø 14 mm · for type ICE, ID, KD · Housing materials: clamp: stainless steel / fixture: stainless steel 316Ti / 1.4571	**E11121**
	Mounting set · straight · Clamp mounting · rod mounting Ø 14 mm · for type ICE, ID, KD · Housing materials: clamp: stainless steel / fixture: stainless steel 316Ti / 1.4571	**E11122**
	Mounting set · Ø 18.5 mm · Clamp mounting · free-standing M10 · for type OG, IG, KG · Housing materials: clamp: diecast zinc / fixture: steel	**E20718**
	Mounting set · Ø 18.5 mm · Clamp mounting · free-standing M10 · for type OG, IG, KG · Housing materials: clamp: diecast zinc / fixture: steel	**E20719**
	Angle bracket · Clamp mounting · for type IW, KQ, OW · Housing materials: stainless steel 316Ti / 1.4571	**E20811**
	Protective bracket · for cable units · for type IW, KW, OW · Housing materials: stainless steel 316Ti / 1.4571	**E20813**
	Protective bracket · for devices with M8 connection · for type OW, IW · Housing materials: stainless steel 316Ti / 1.4571	**E20814**
	Mounting set · Ø 12.2 mm · Clamp mounting · free-standing M8 · for type OF, IF · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: diecast zinc	**E20856**

Type	Description	Order no.
	Mounting set · Ø 12.2 mm · Clamp mounting · free-standing M8 · for type OF, IF · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: stainless steel	E20857
	Mounting set · Ø 12.2 mm · Clamp mounting · free-standing M8 · for type OF, IF · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: diecast zinc	E20860
	Mounting set · Ø 12.2 mm · Clamp mounting · free-standing M8 · for type OF, IF · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: stainless steel	E20861
	Mounting set · Ø 12.2 mm · Clamp mounting · aluminium profile · for type OF, IF · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: diecast zinc / Cube: diecast zinc	E20864
	Mounting set · Ø 12.2 mm · Clamp mounting · aluminium profile · for type OF, IF · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: diecast zinc / Cube: diecast zinc	E20865
	Mounting set · Ø 18.5 mm · Clamp mounting · aluminium profile · for type OG, IG, KG · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: diecast zinc / Cube: diecast zinc	E20866
	Mounting set · Ø 18.5 mm · Clamp mounting · aluminium profile · for type OG, IG, KG · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: diecast zinc / Cube: diecast zinc	E20867
	Mounting set · Ø 18.5 mm · Clamp mounting · free-standing M10 · for type OG, IG, KG · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: stainless steel	E20869
	Mounting set · Ø 18.5 mm · Clamp mounting · free-standing M10 · for type OG, IG, KG · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: stainless steel	E20870
	Mounting set · Ø 30.2 mm · Clamp mounting · free-standing M12 · for type OI, II, KI · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: diecast zinc	E20873
	Mounting set · Ø 30.2 mm · Clamp mounting · free-standing M12 · for type OI, II, KI · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: stainless steel	E20874
	Mounting set · Ø 30.2 mm · Clamp mounting · aluminium profile · for type OI, II, KI · Housing materials: fixture: stainless steel 316Ti / 1.4571 / clamp: diecast zinc / Cube: diecast zinc	E20875
	Limit plungers · for types M8 x 1 · with Sn = 1 mm f, 2 mm f and 3 mm f · Housing materials: Limit plungers: free cutting steel / plunger: C45K hardened on front / nut: brass nickel-plated	E10154
	Limit plungers · for type Ø 6.5 mm · with Sn = 1 mm f · Housing materials: Limit plungers: free cutting steel / plunger: C45K hardened on front / nut: brass nickel-plated	E10155

Type	Description	Order no.
	Plastic nut for flow plate · M18 x 1 · Housing materials: POM	E19503

Wiring diagrams

1



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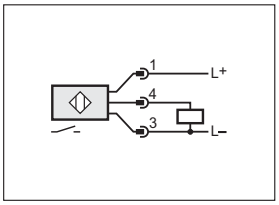

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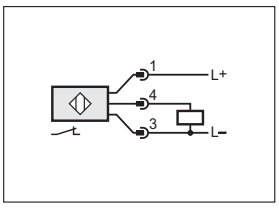

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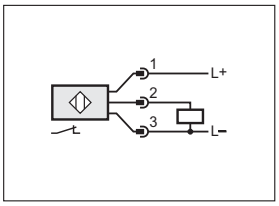

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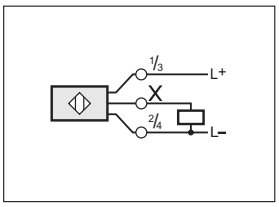

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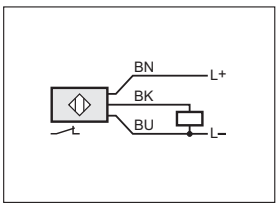

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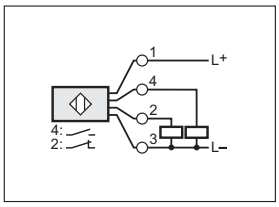

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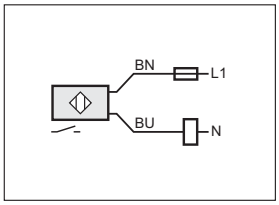

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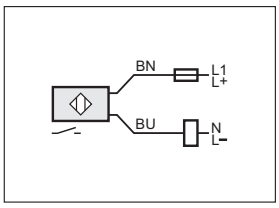

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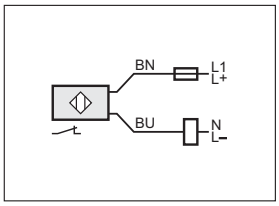

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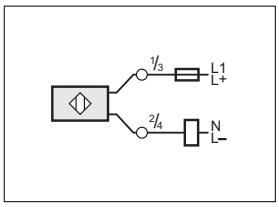

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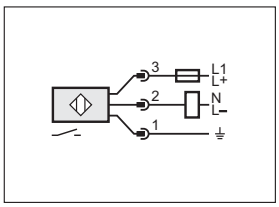

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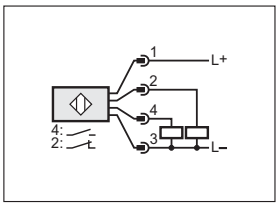

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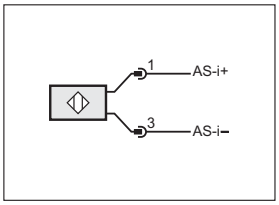

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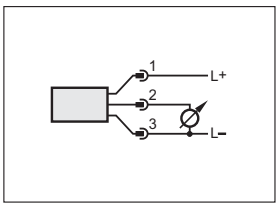

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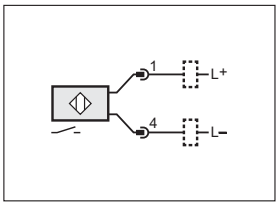

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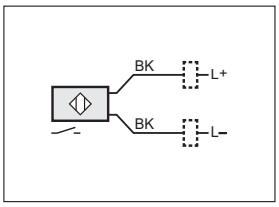

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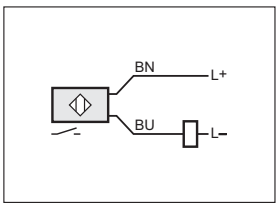

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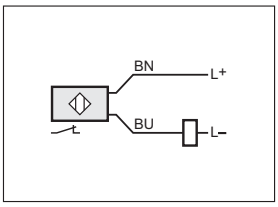

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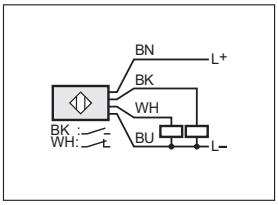

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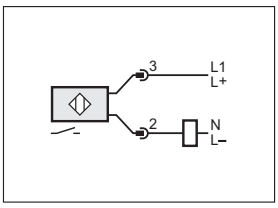

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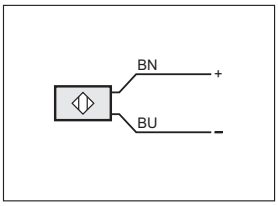

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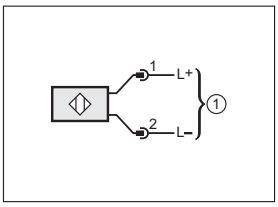
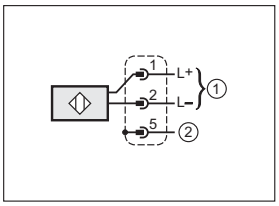


1: connection to NAMUR-amplifier

Wiring diagrams

24



1: connection to NAMUR-amplifier, 2: Potential equalisation plug housing

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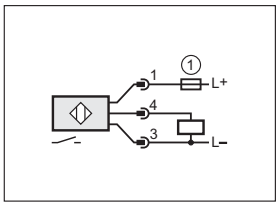

1: fuse

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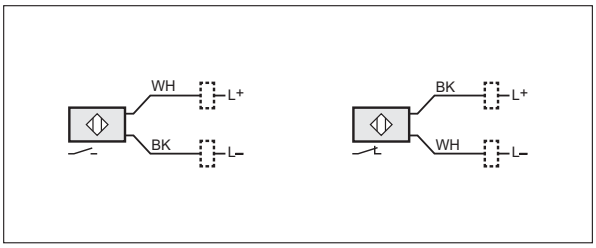

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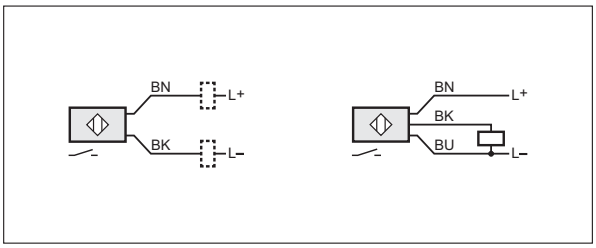

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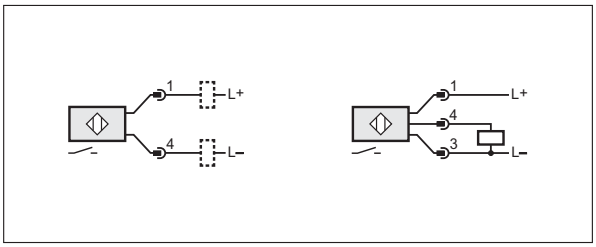

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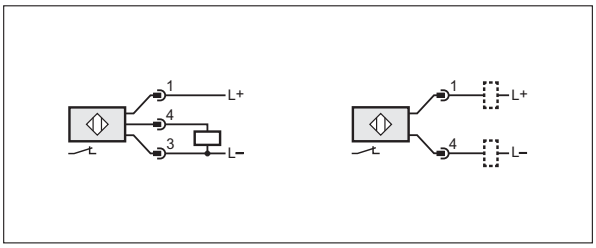

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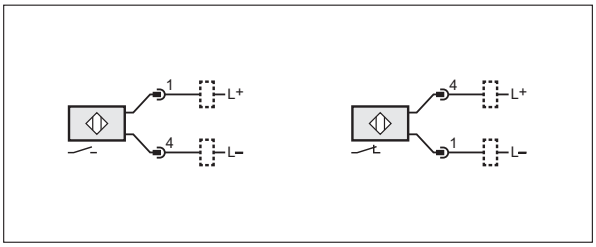

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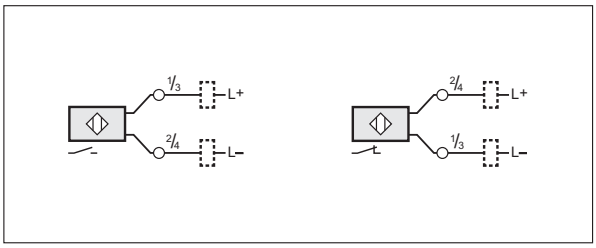

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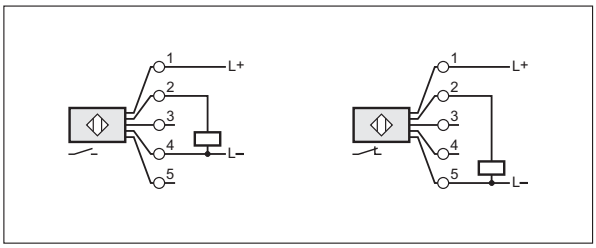

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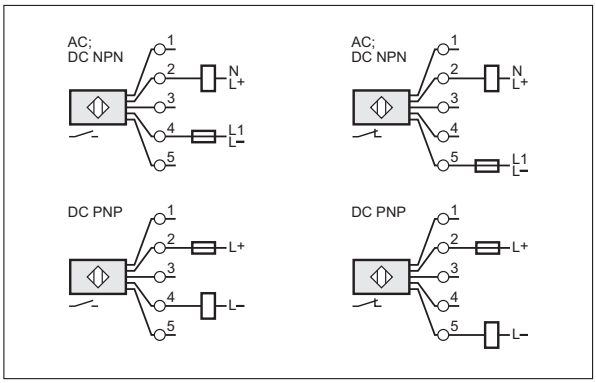

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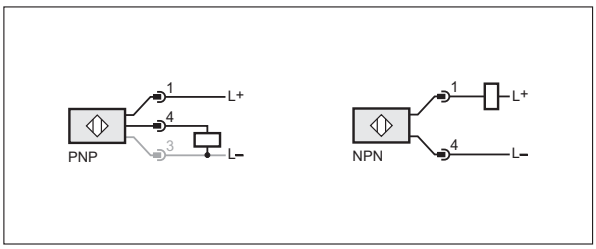

Wiring diagrams

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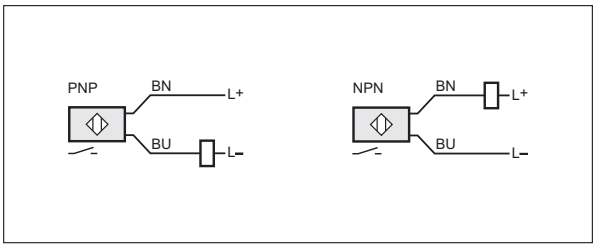

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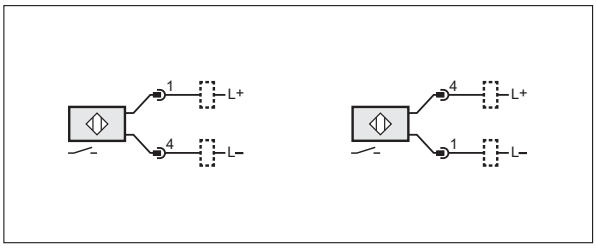

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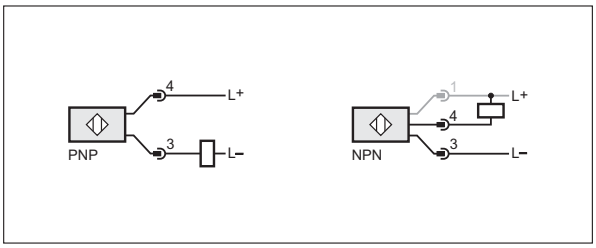

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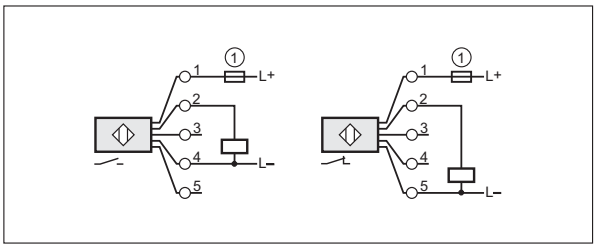

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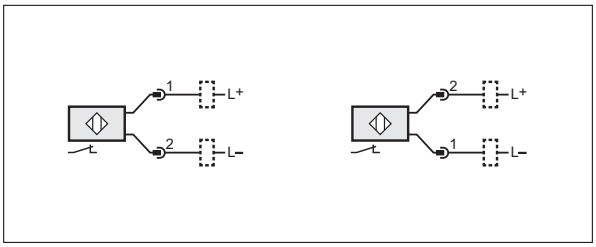

Scale drawings

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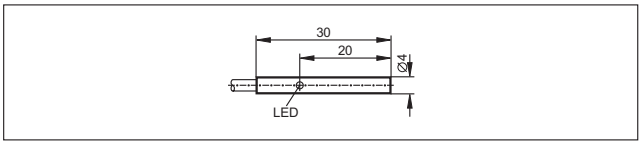

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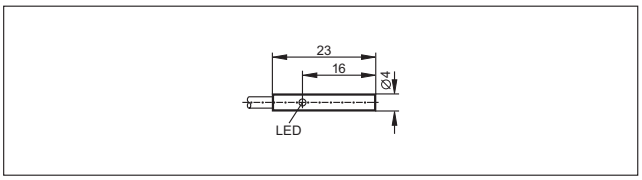

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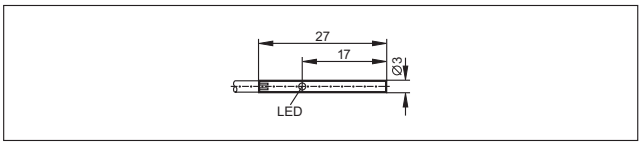

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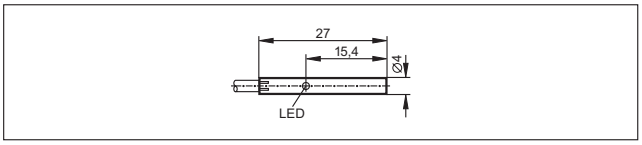

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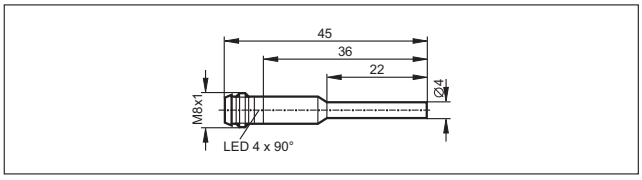

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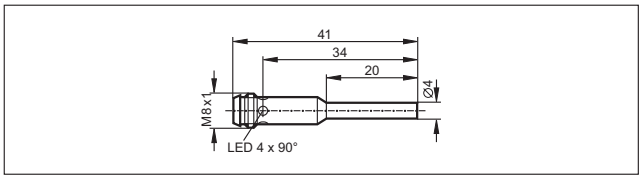

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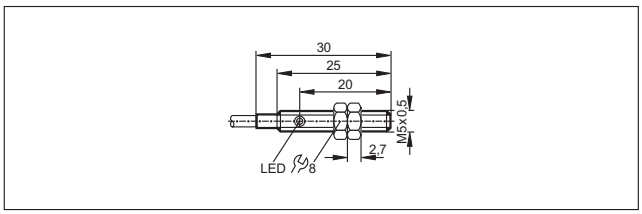

Scale drawings

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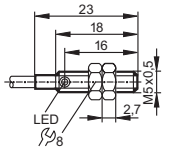

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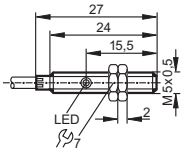

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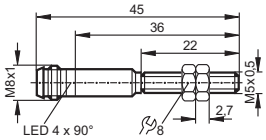

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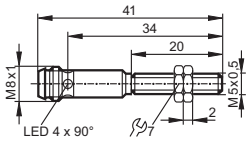

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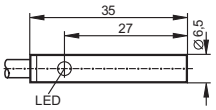

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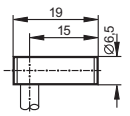

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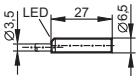

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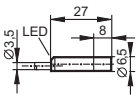

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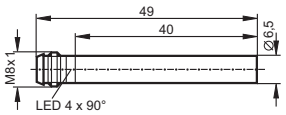

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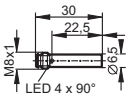

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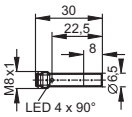

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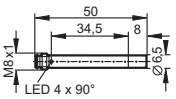

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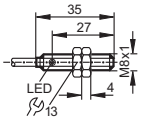

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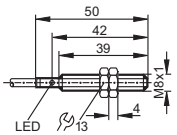

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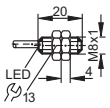

Scale drawings

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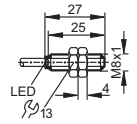

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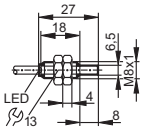

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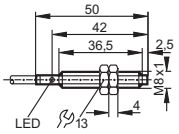

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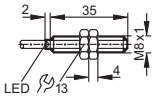

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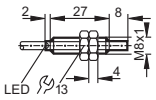

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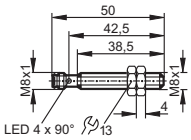

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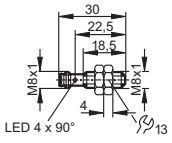

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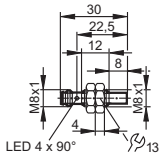

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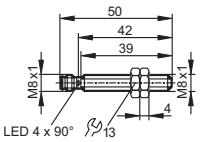

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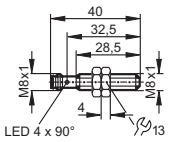

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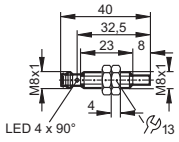

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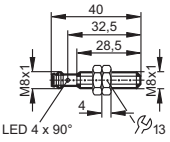

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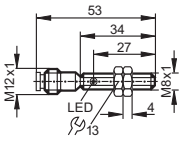

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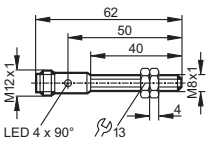

Scale drawings

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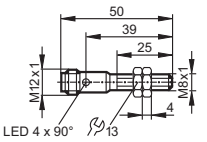

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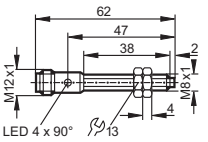

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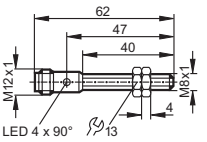

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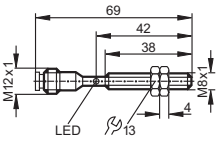

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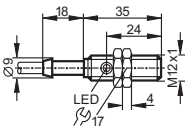

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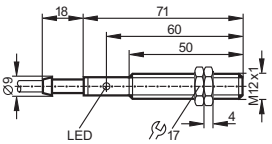

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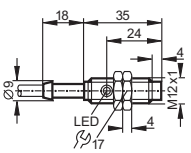

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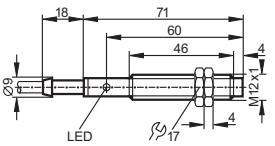

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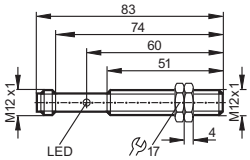

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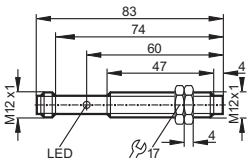

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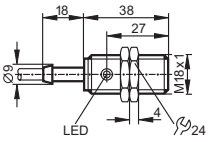

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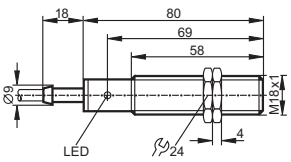

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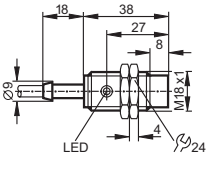

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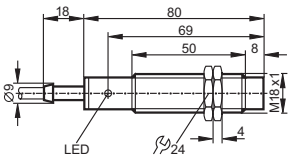

Scale drawings

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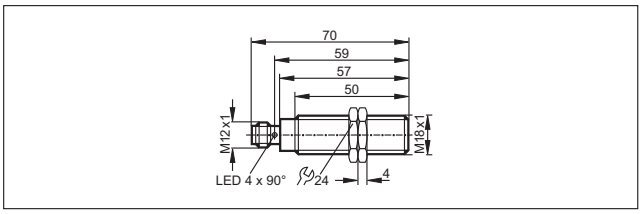

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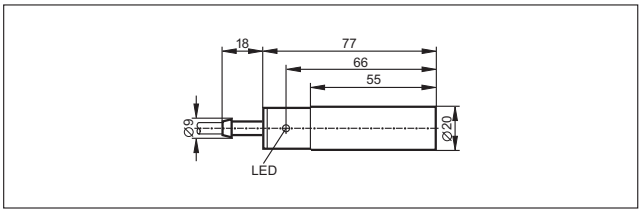

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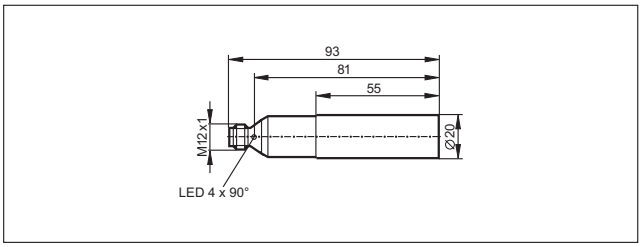

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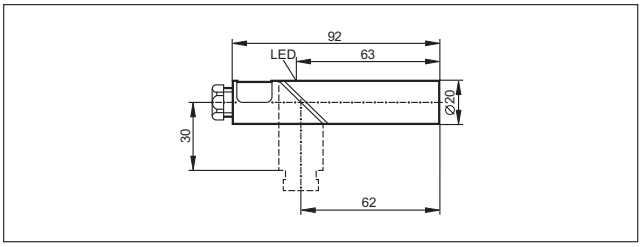

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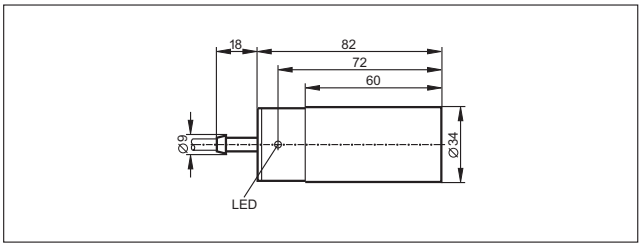

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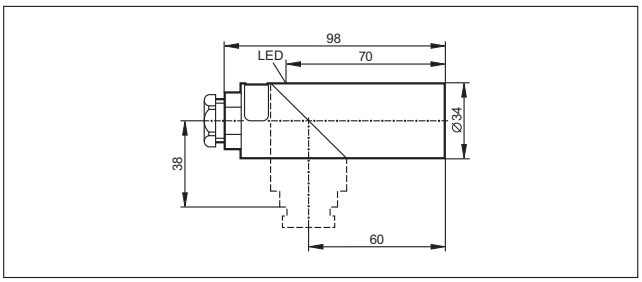

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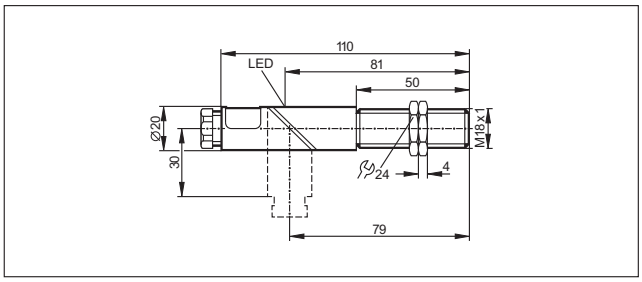

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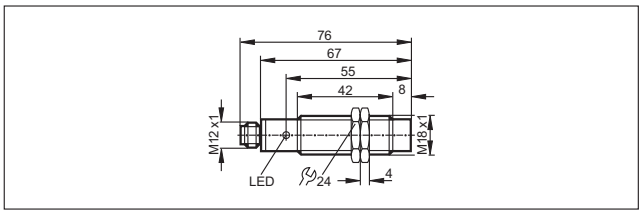

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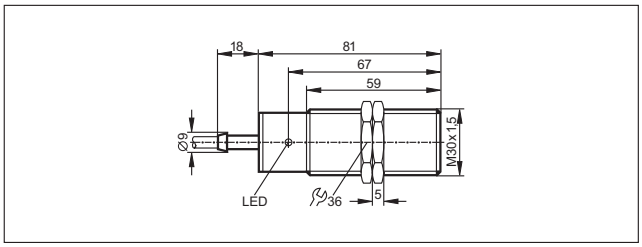

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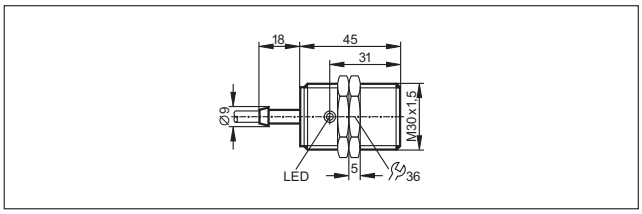

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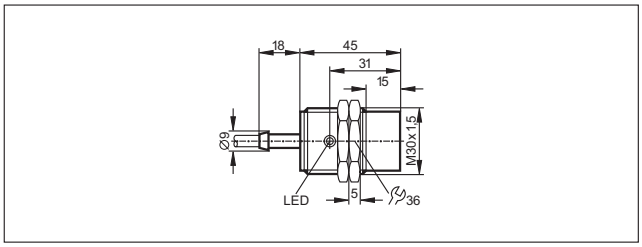

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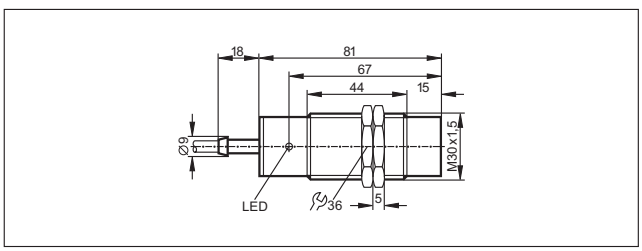
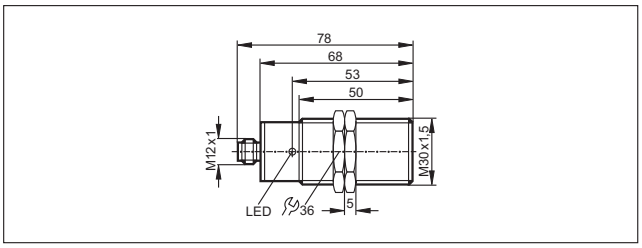


Scale drawings

63



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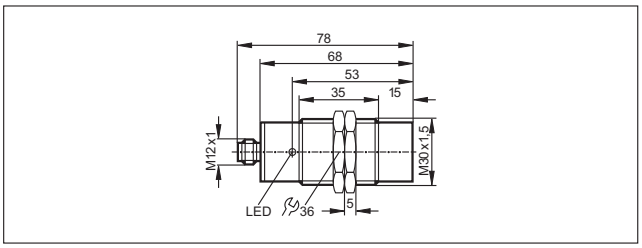

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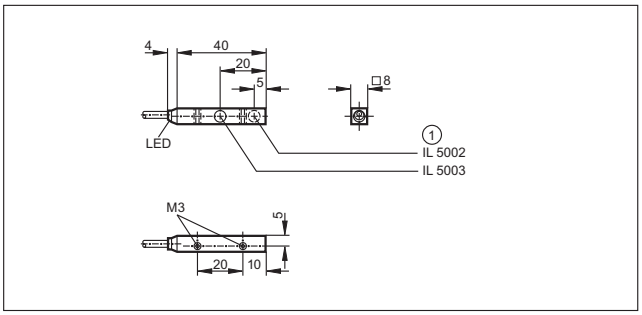
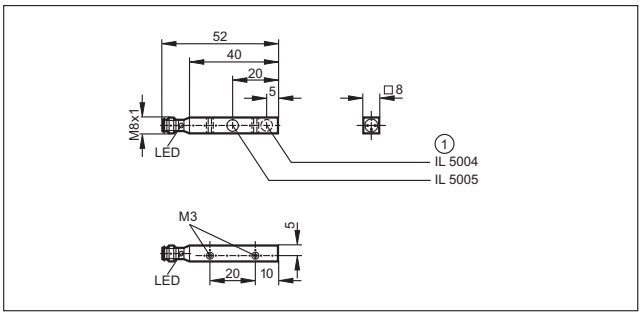


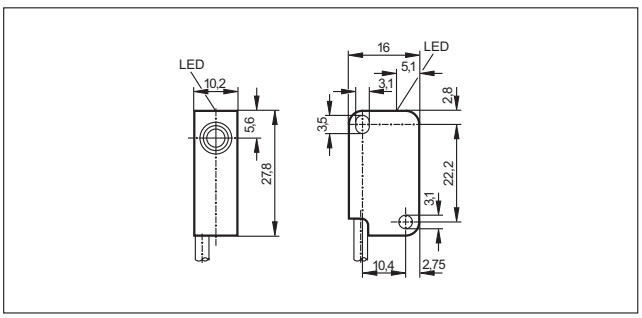
1: sensing face

66



1: sensing face

67



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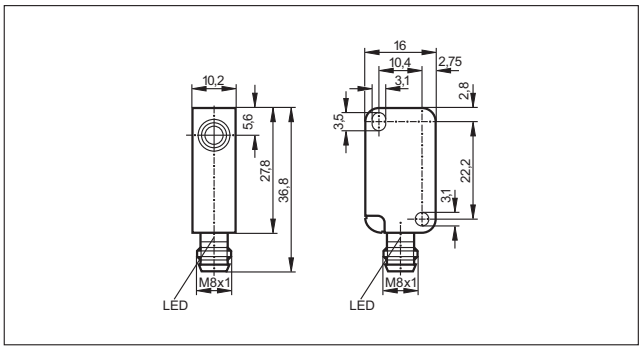

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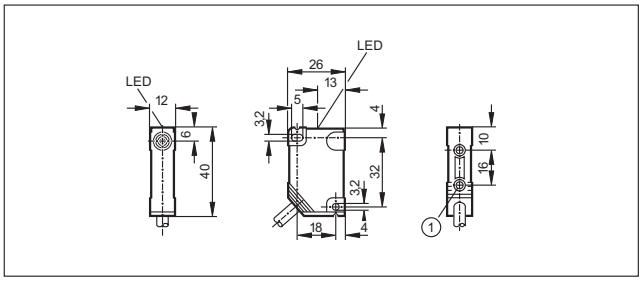
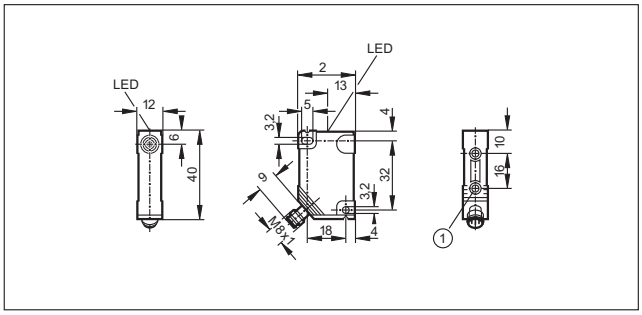


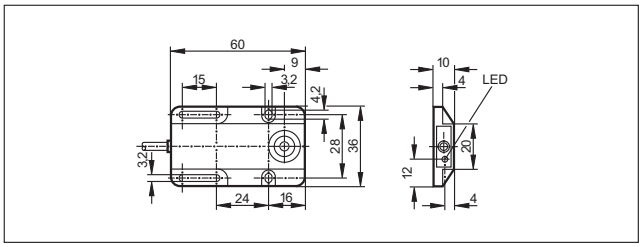
1: threaded insert M3, depth 5.8 mm, max. tightening torque 1.2 Nm (screw fixing class 8.8) when brass insert in contact with counterpart.

70



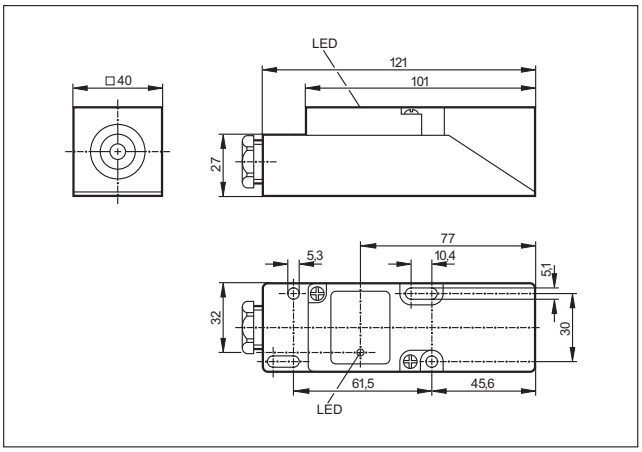
1: threaded insert M3, depth 5.8 mm, max. tightening torque 1.2 Nm (screw fixing class 8.8) when brass insert in contact with counterpart.

71



Scale drawings

72



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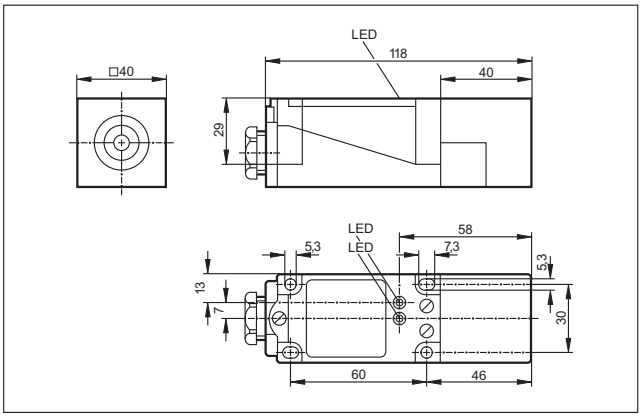

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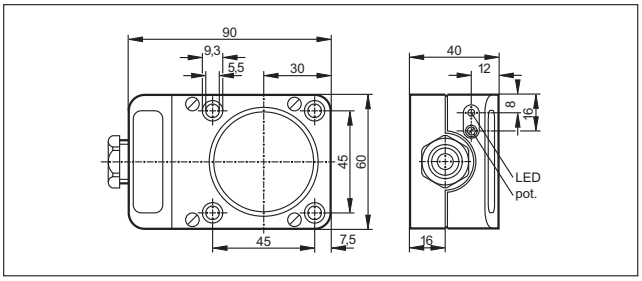

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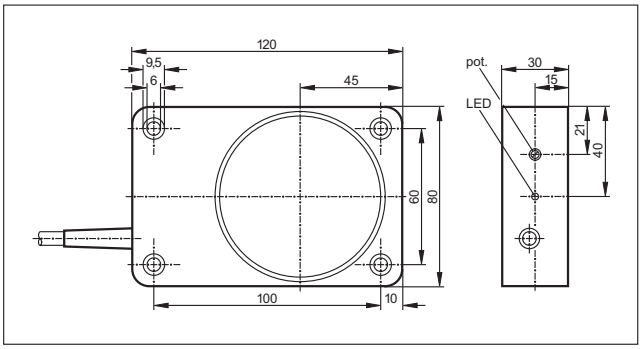

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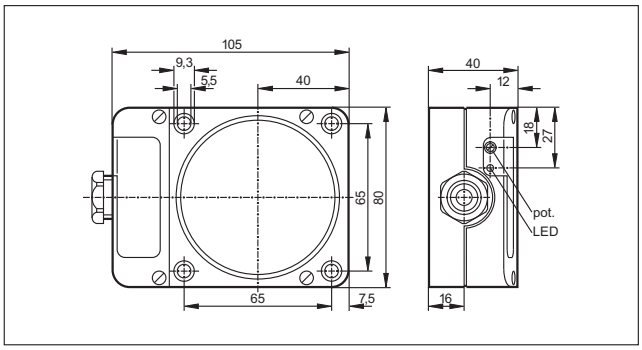

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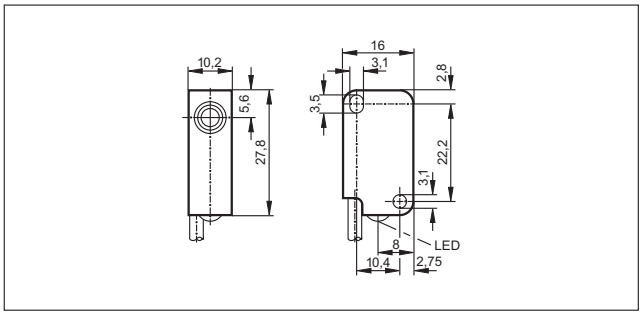

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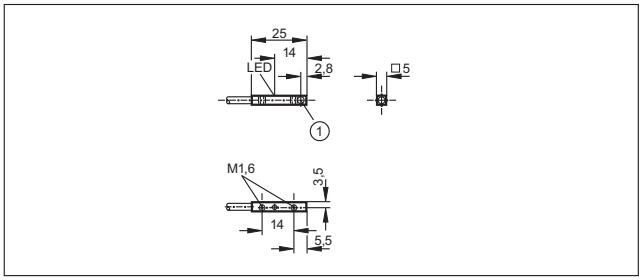
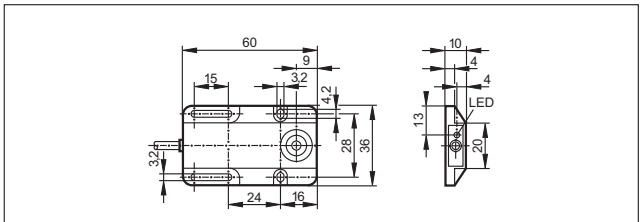


1: sensing face

79



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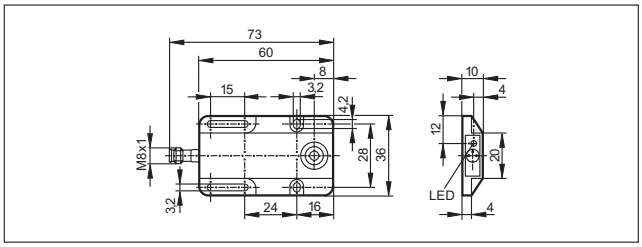
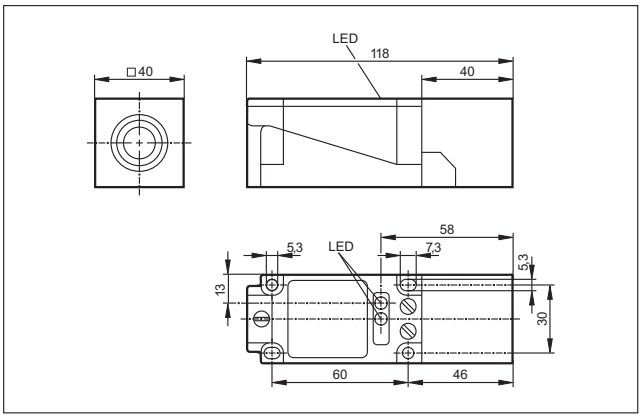


Scale drawings

81



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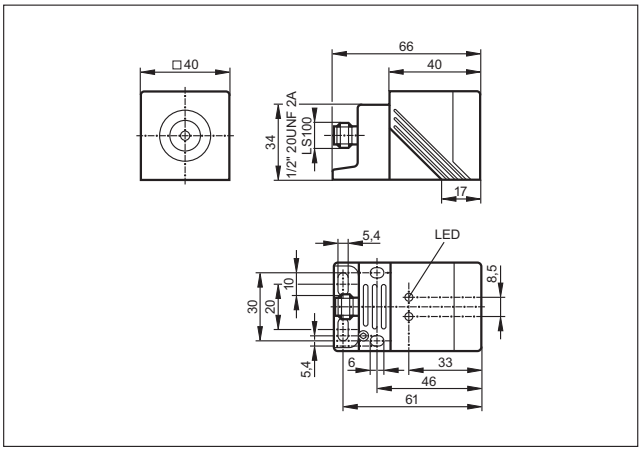

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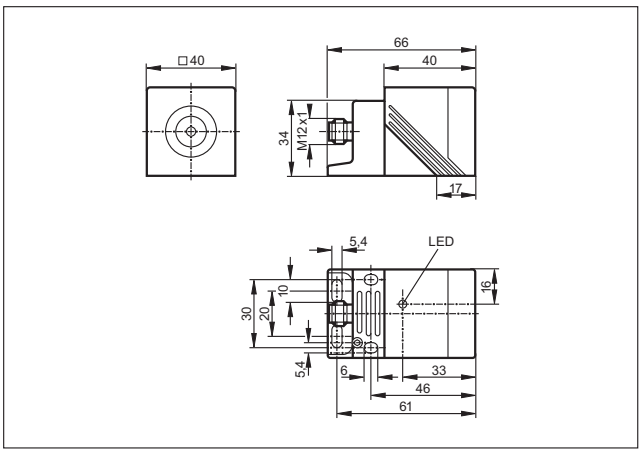

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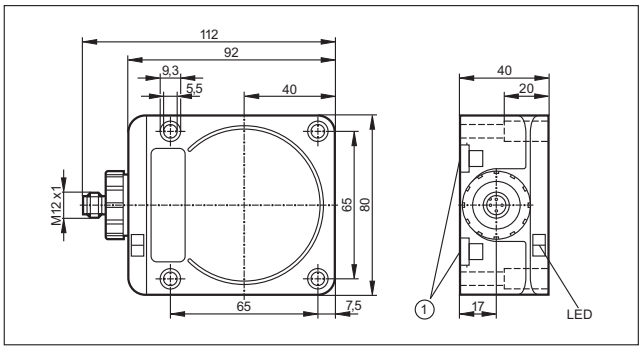
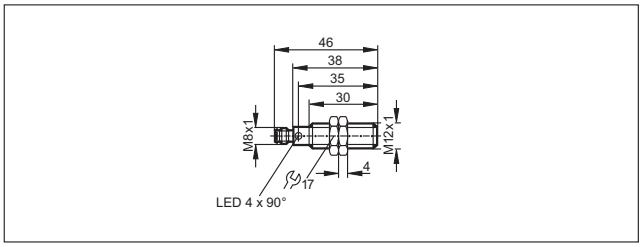


1: mounting on DIN rail

85



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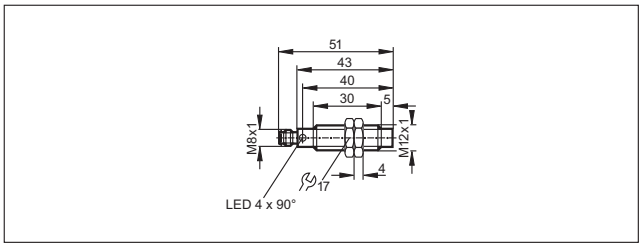

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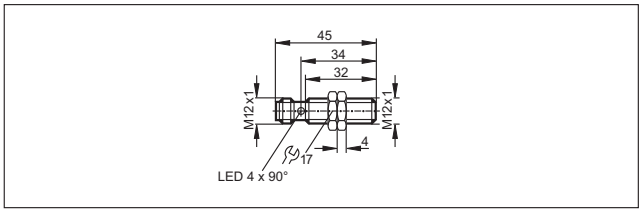

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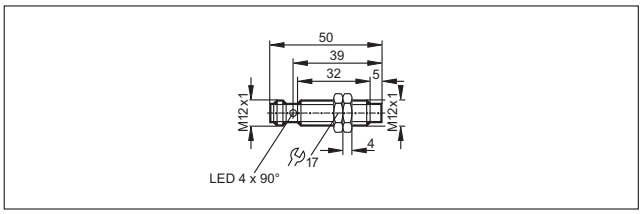

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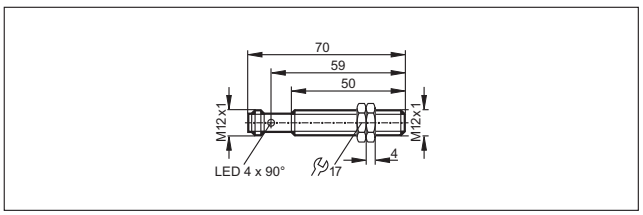
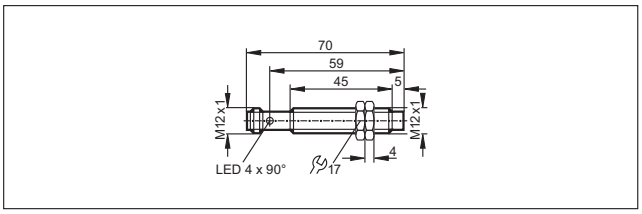


Scale drawings

90



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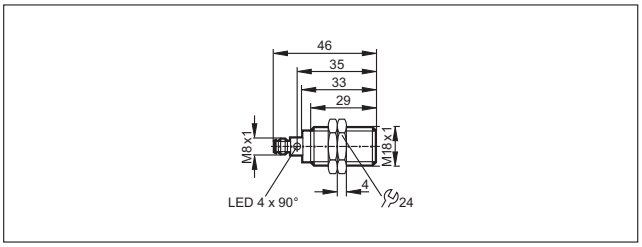

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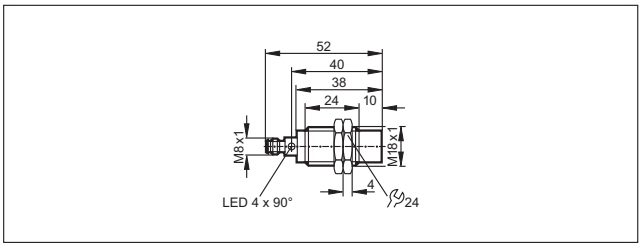

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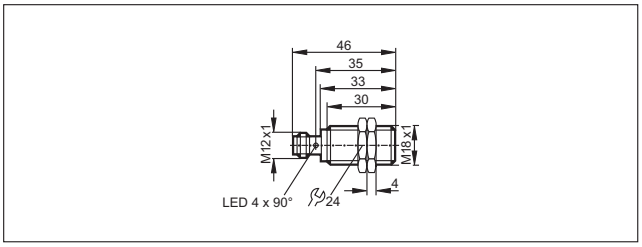

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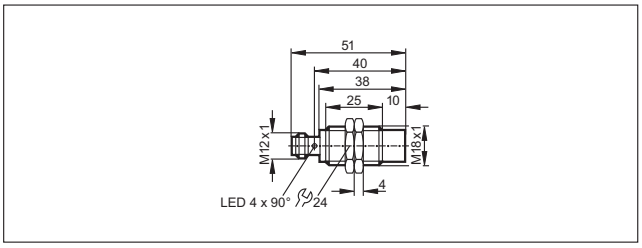

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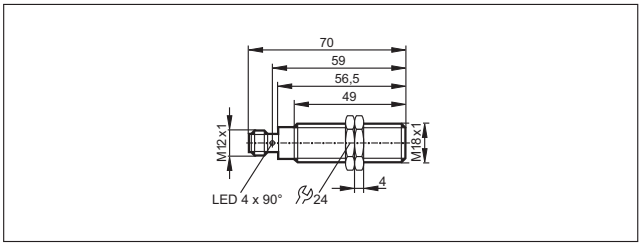

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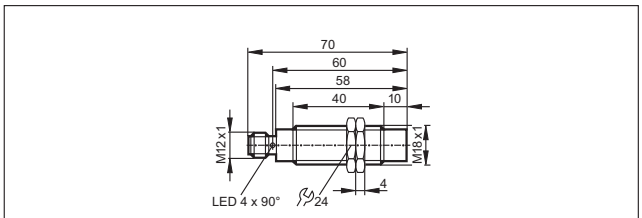

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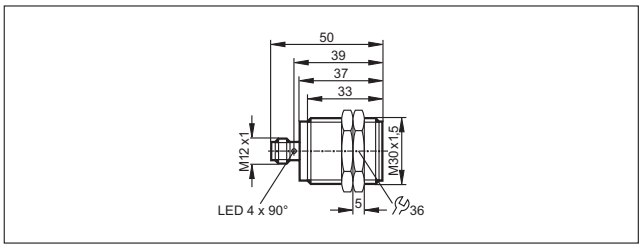

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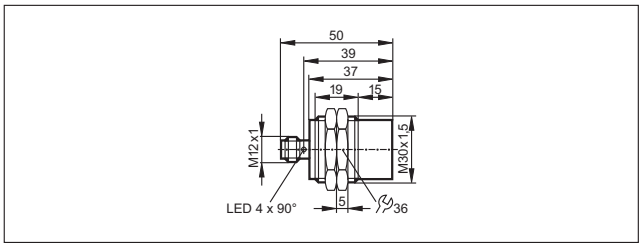

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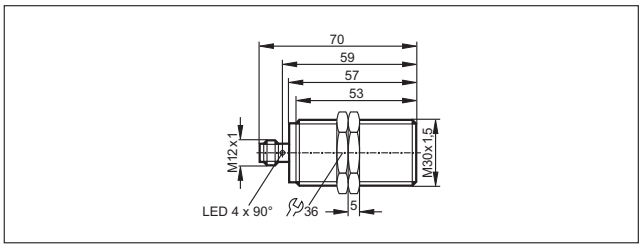

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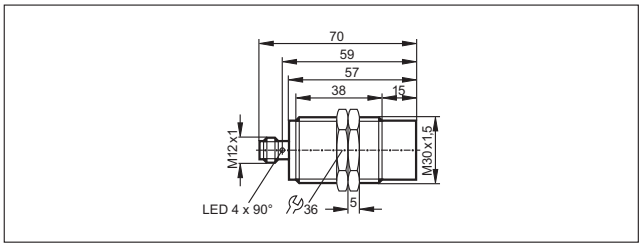
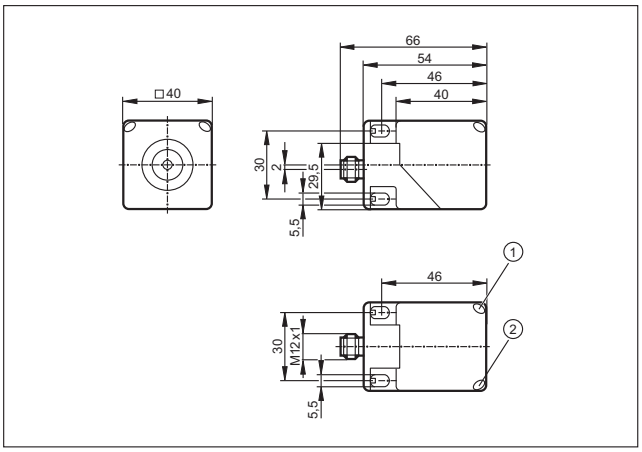


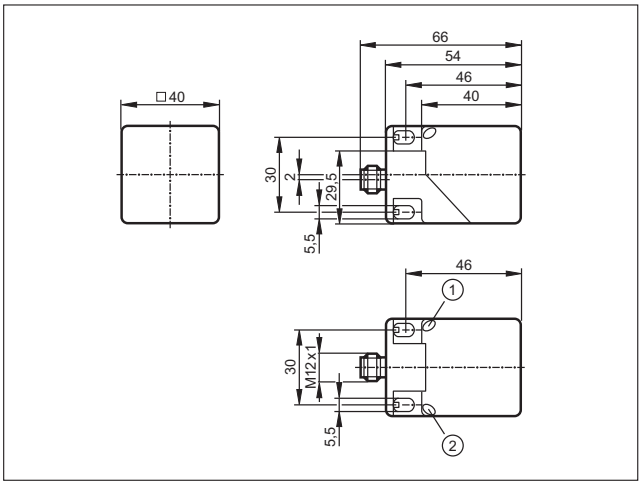
Scale drawings

101



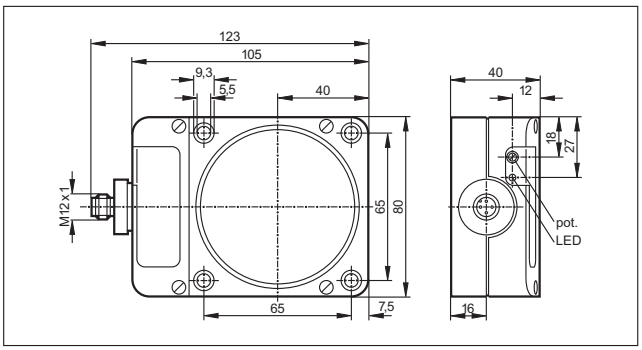
1: LED yellow, 2: LED green

102

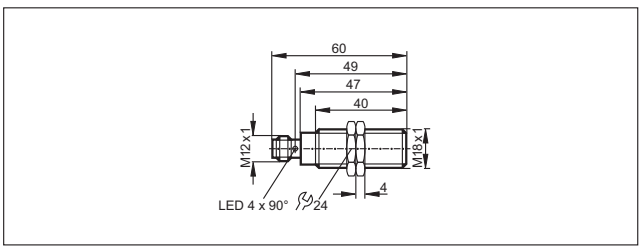


1: LED yellow, 2: LED green

103



104



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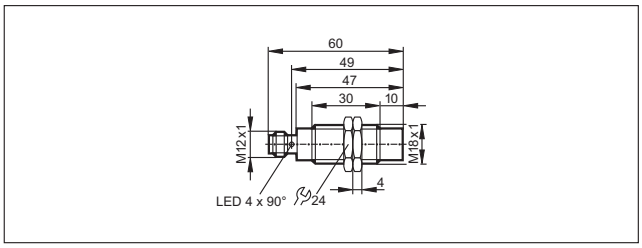

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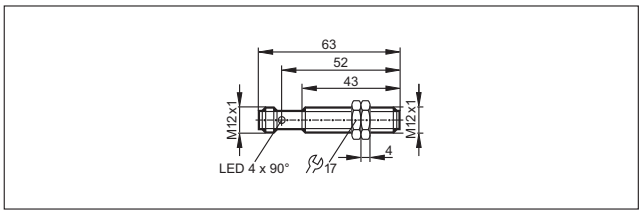

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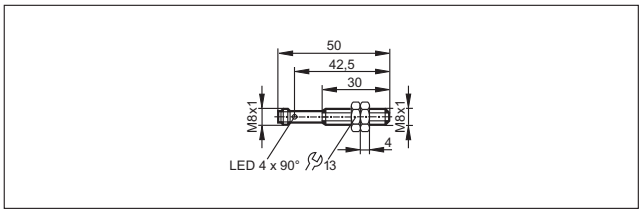
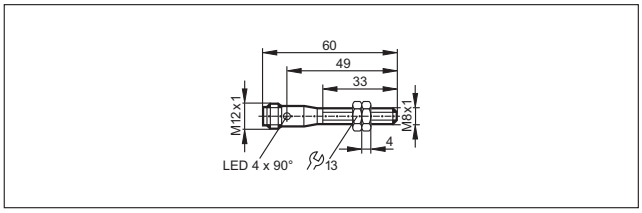


108



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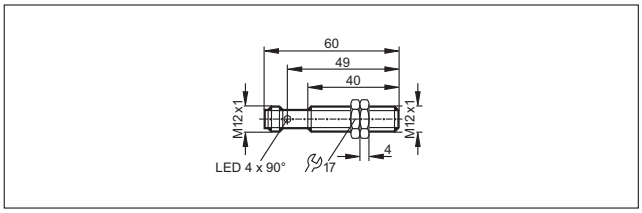

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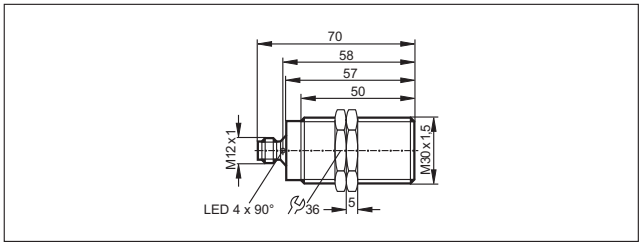

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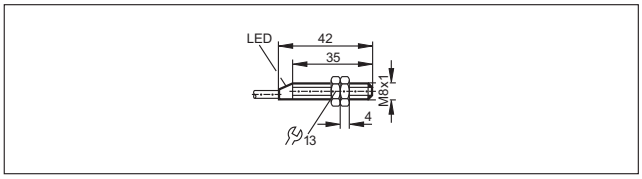
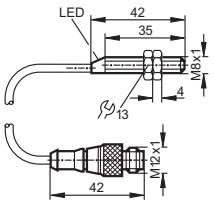
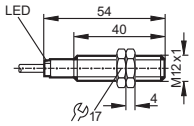


Scale drawings

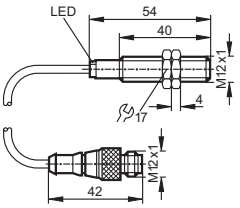
112



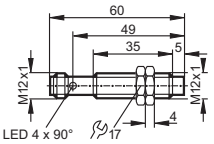
113



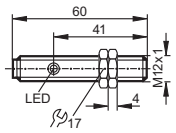
114



115



116



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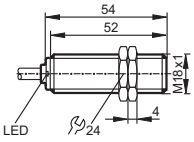

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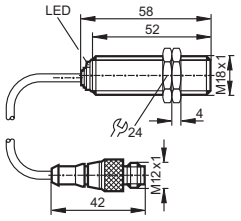
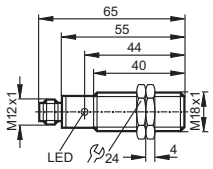


119



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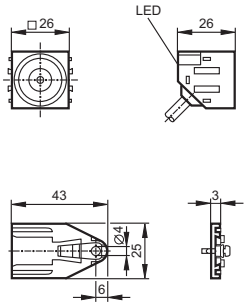

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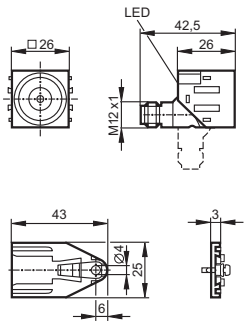
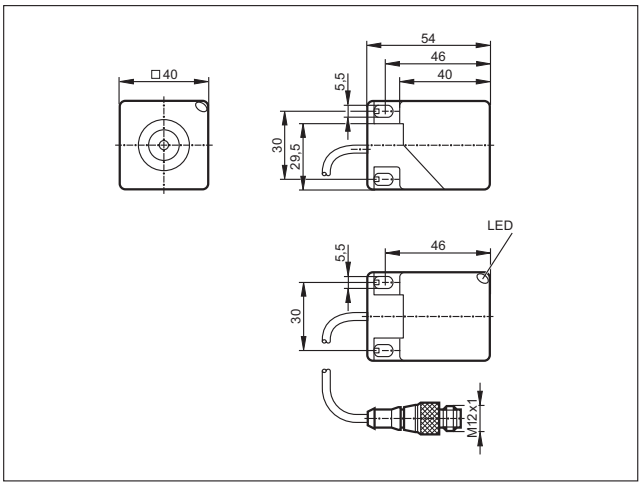


Scale drawings

122



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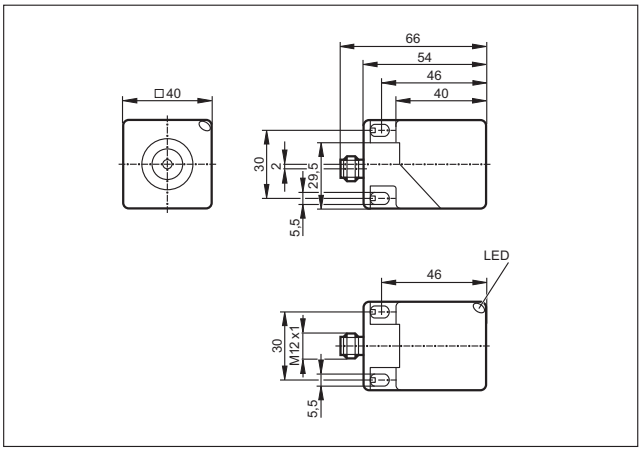

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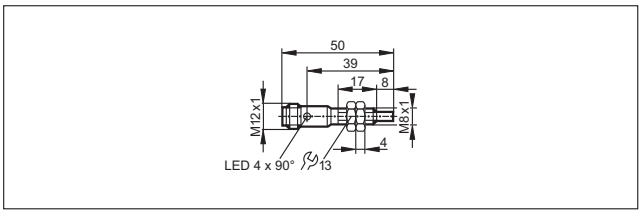

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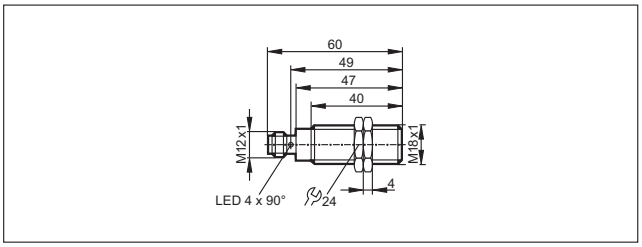

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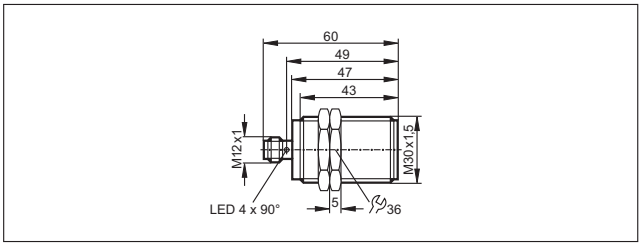
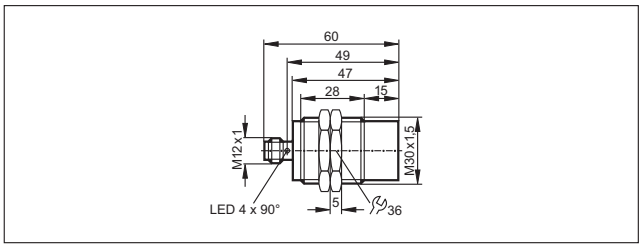


127



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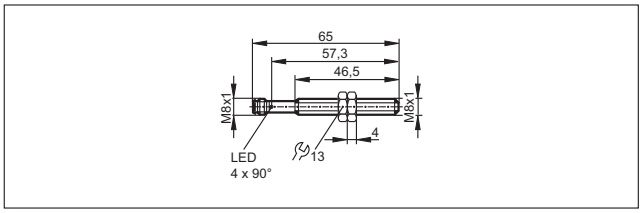
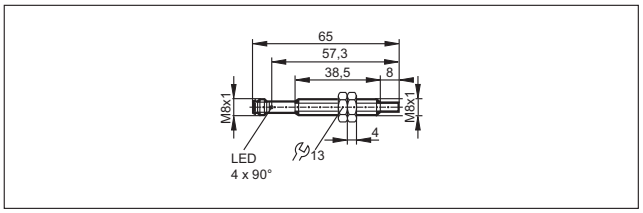


129



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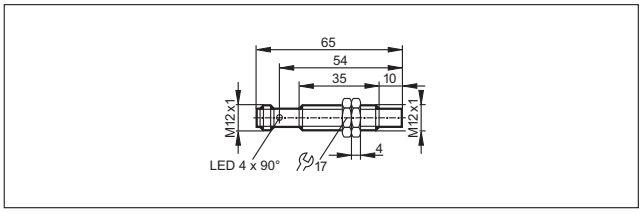

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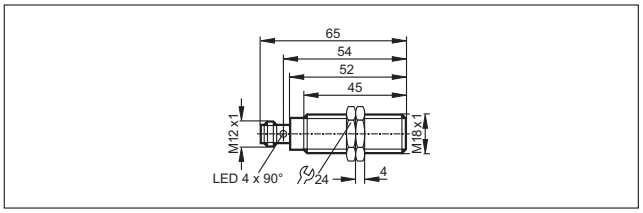

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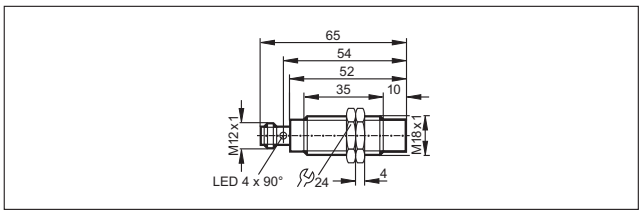

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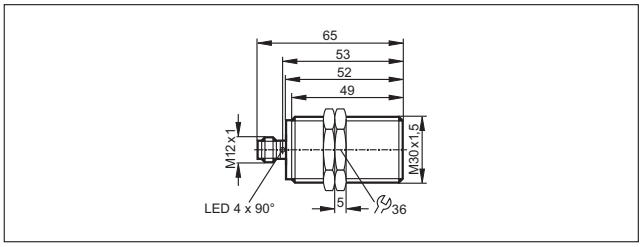
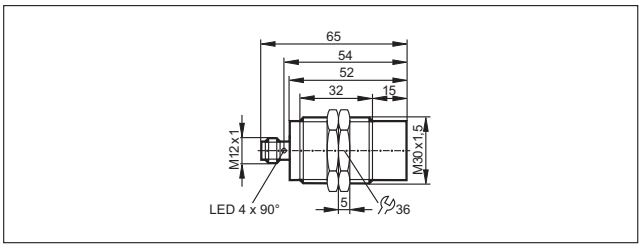


Scale drawings

134



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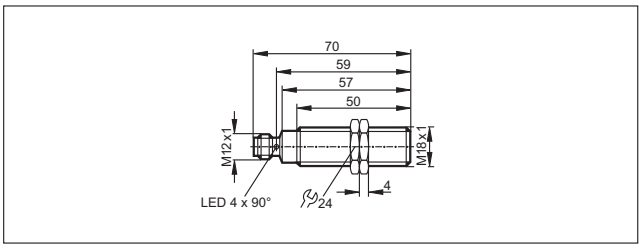

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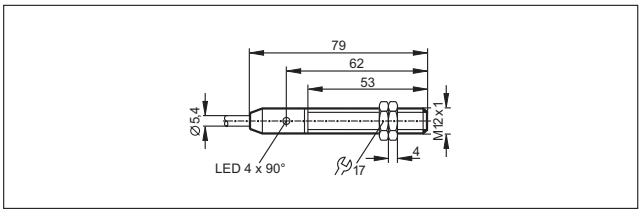

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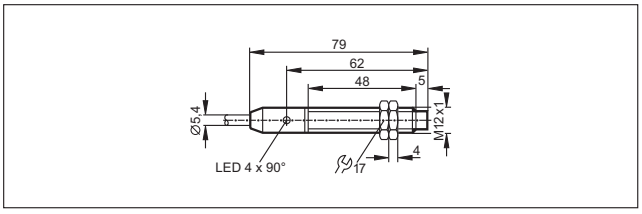

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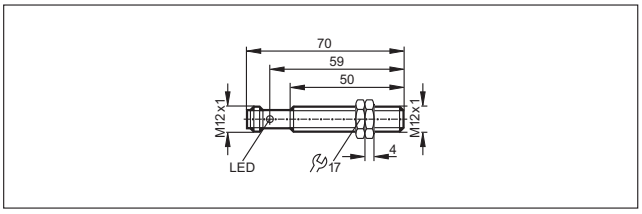

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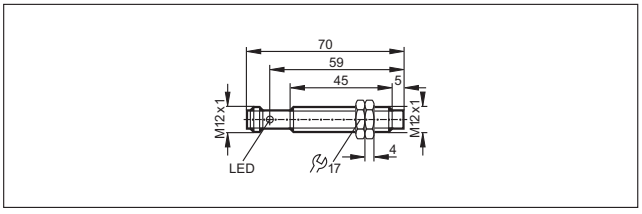

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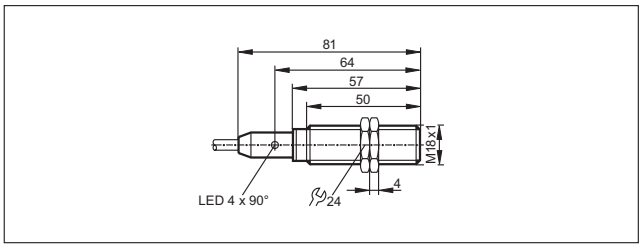

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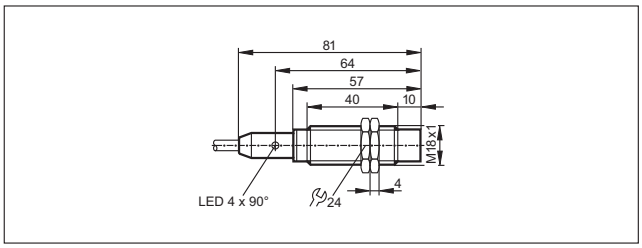

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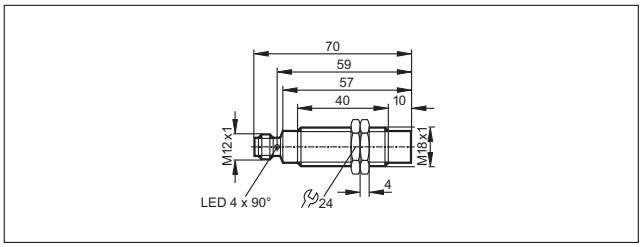

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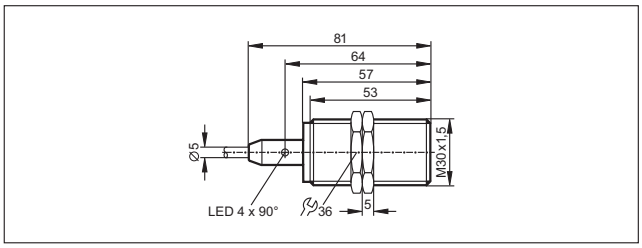

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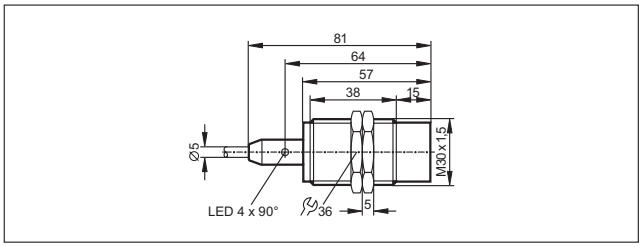

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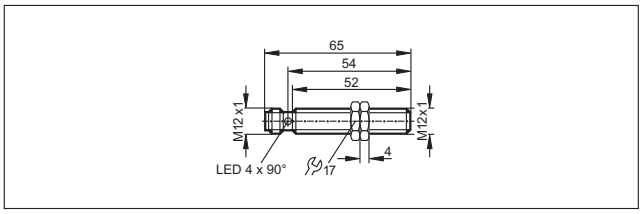
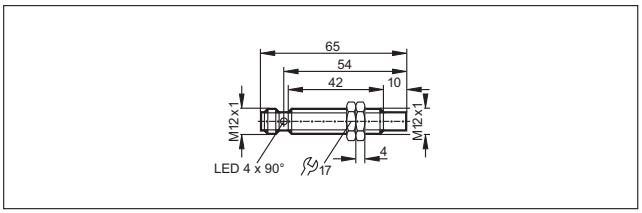


Scale drawings

146



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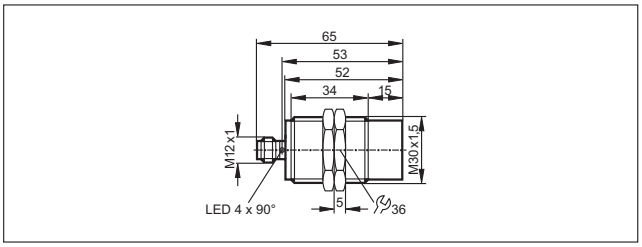

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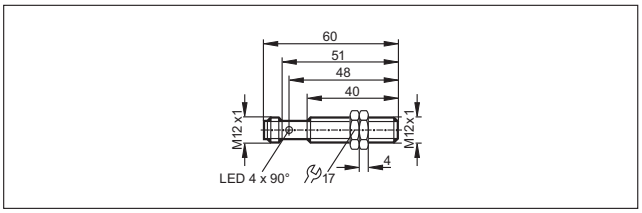

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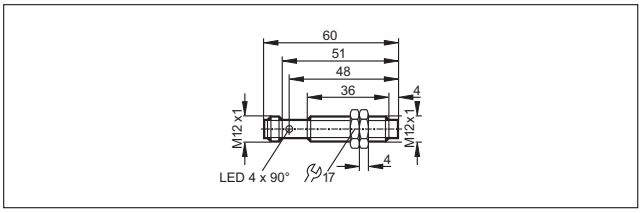

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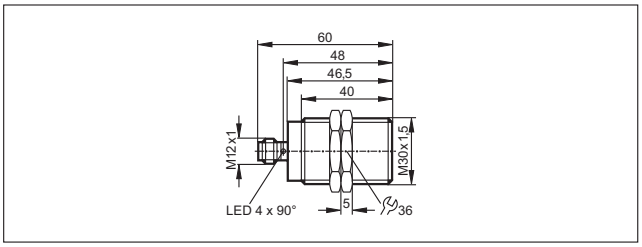

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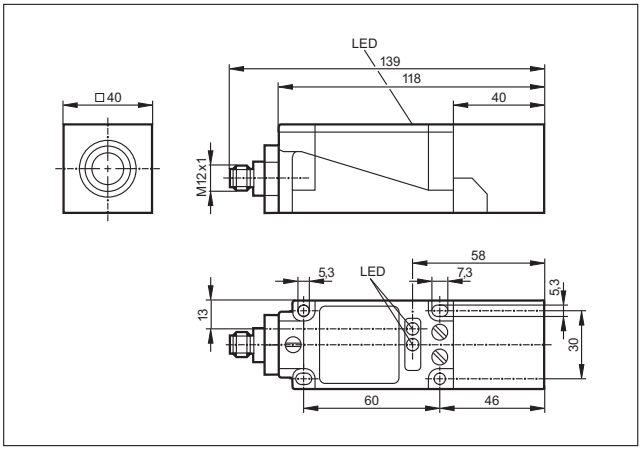

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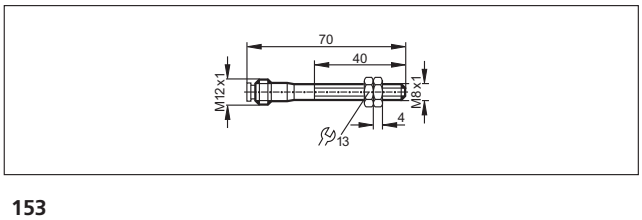

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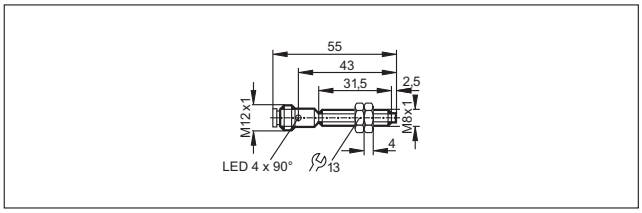

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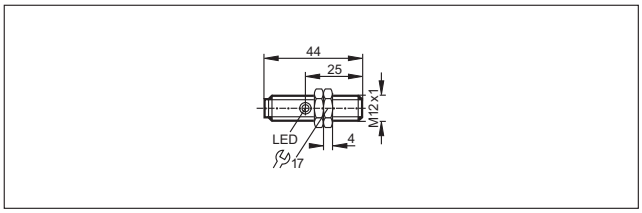
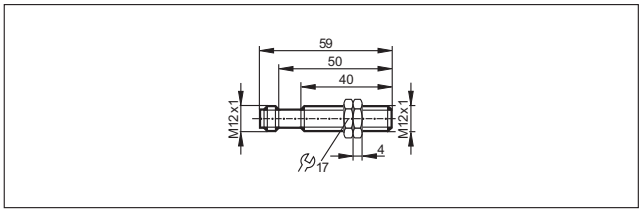
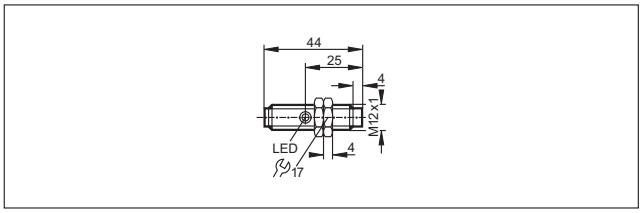


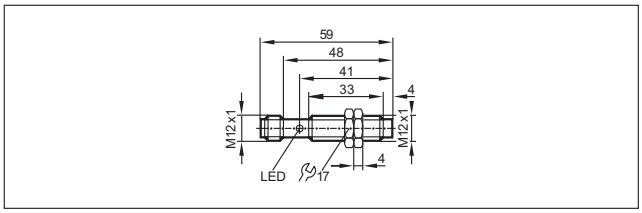
155



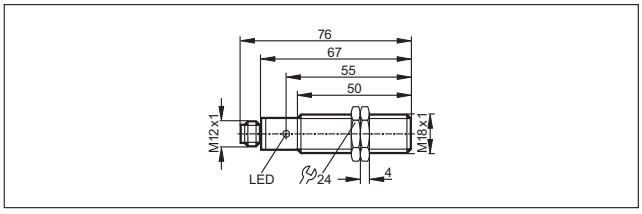
156



157

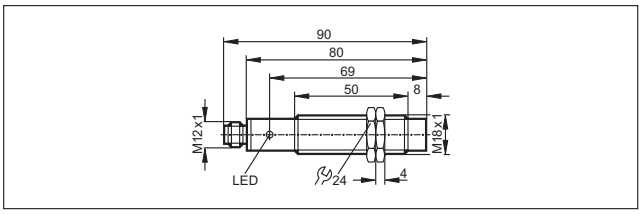


158



Scale drawings

159



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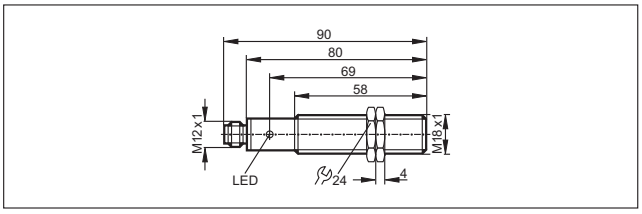

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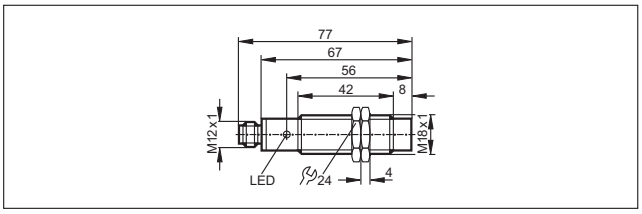
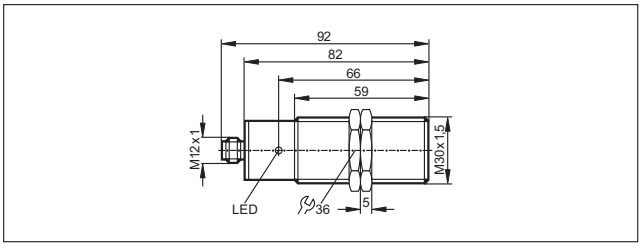
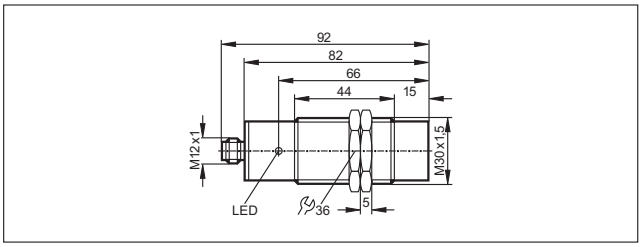


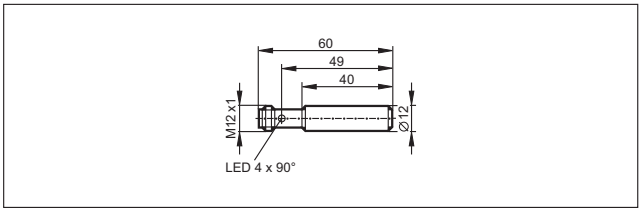
162



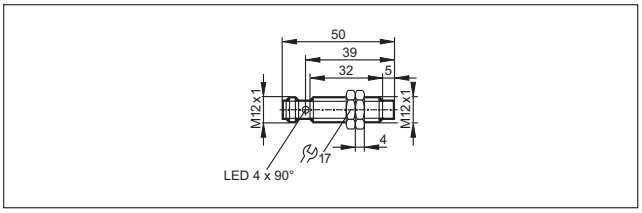
163



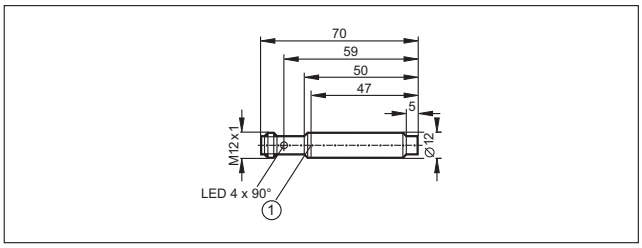
164



165

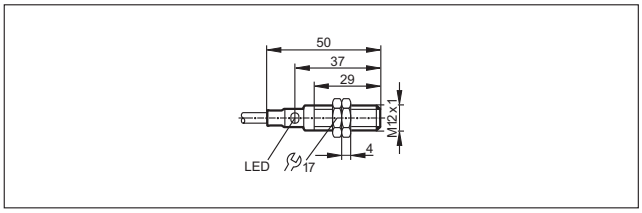


166

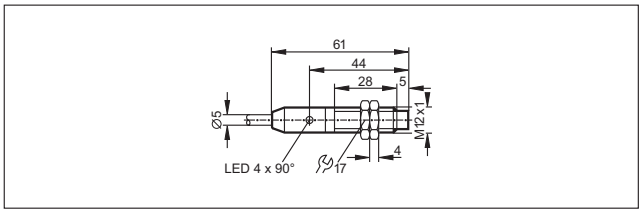


1: locating groove

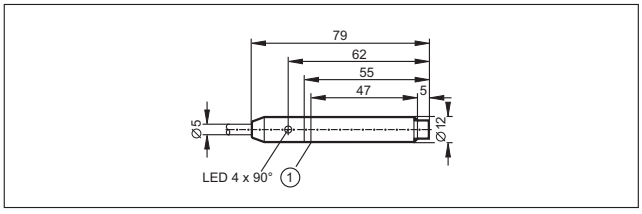
167



168

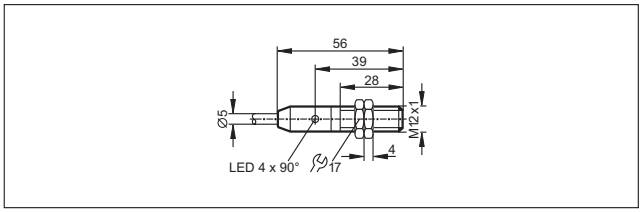


169

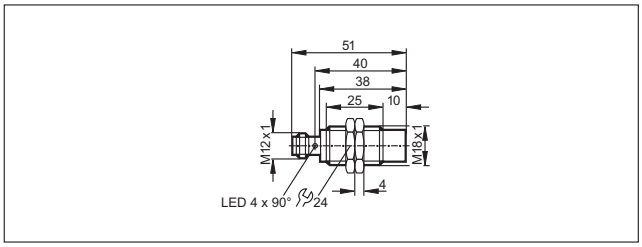


1: locating groove

170

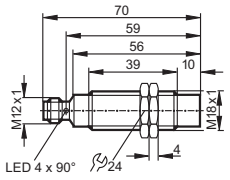


171

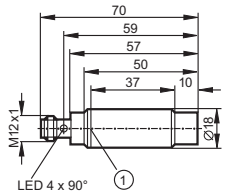


Scale drawings

172

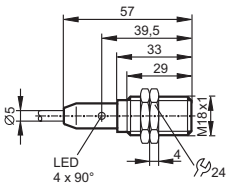


173

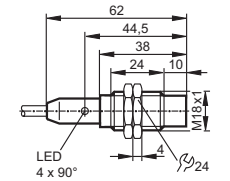


1: locating groove

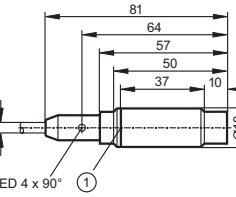
174



175

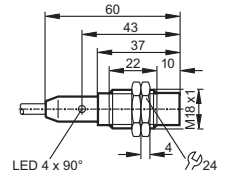


176



1: locating groove

177



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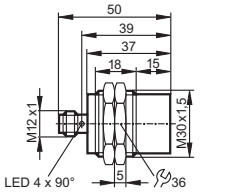

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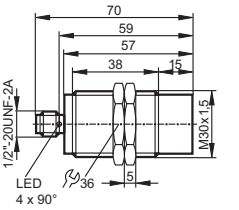

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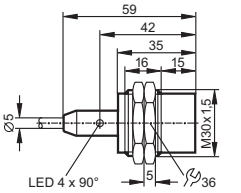

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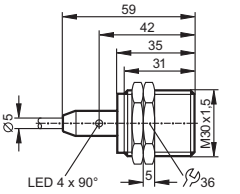

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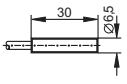

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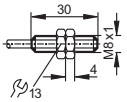

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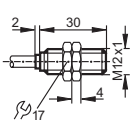
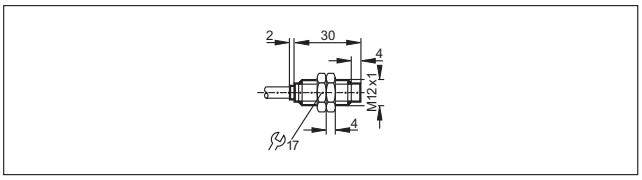


Scale drawings

185



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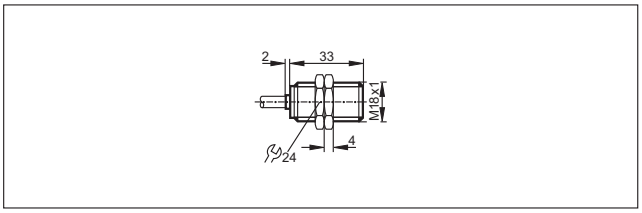

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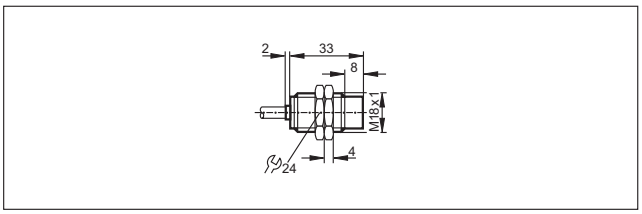

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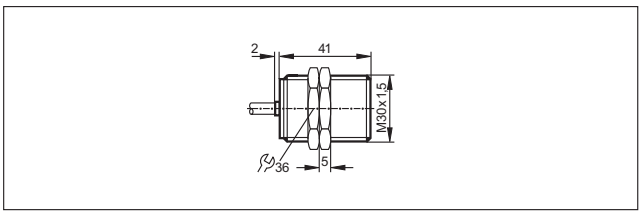

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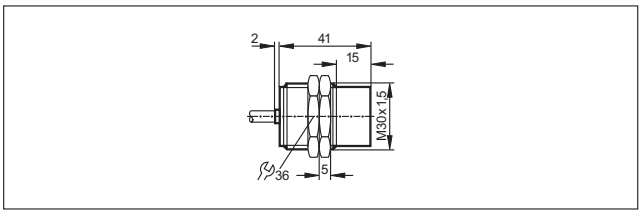

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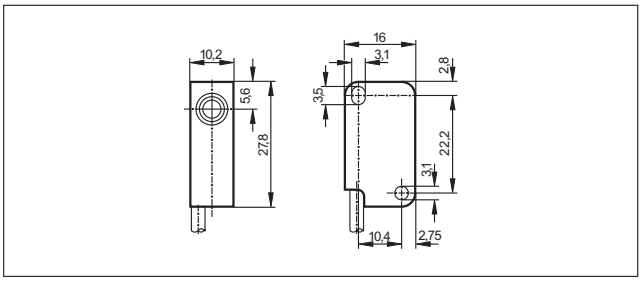

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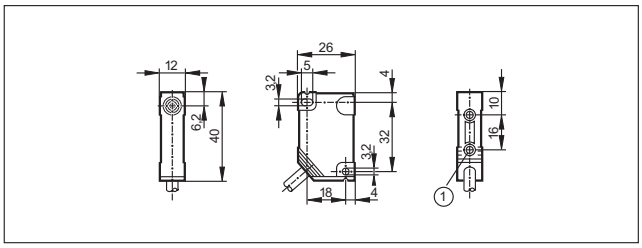
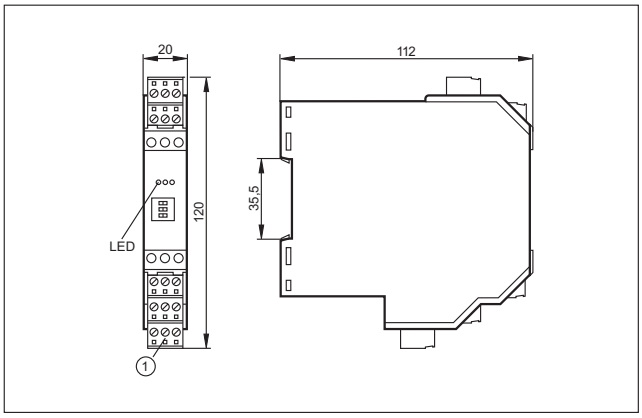


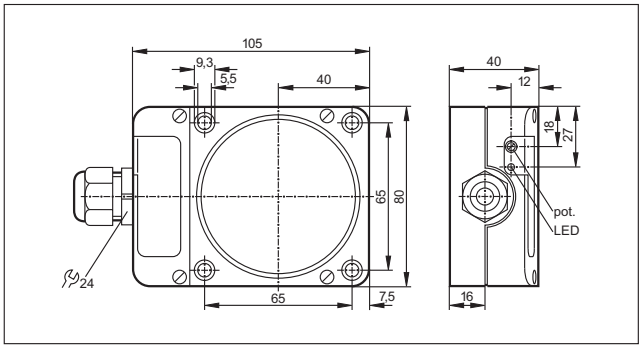
1: threaded insert M3, depth 5.8 mm, max. tightening torque 1.2 Nm (screw fixing class 8.8) when brass insert in contact with counterpart.

192



1: Combicon plug with screw terminals (optional)

193



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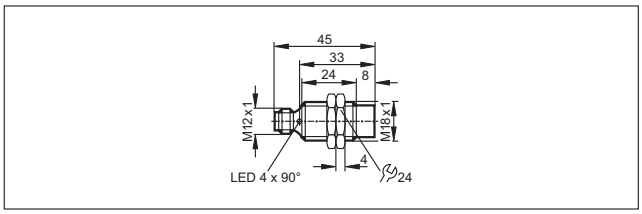

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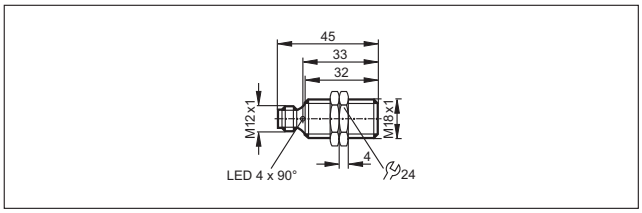
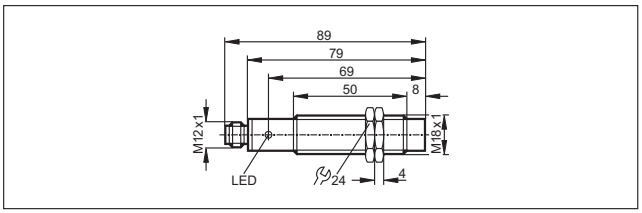


Scale drawings

196



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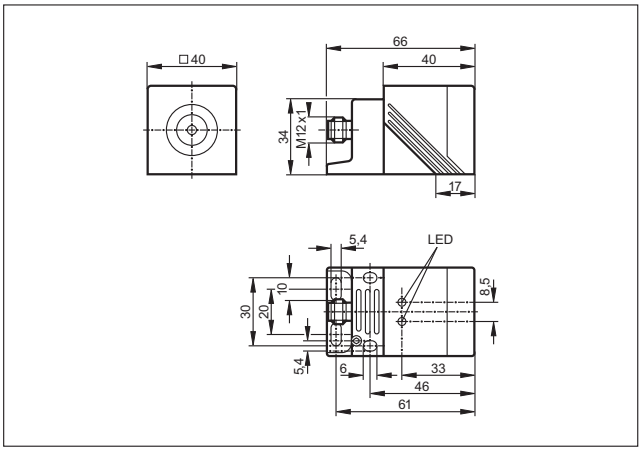

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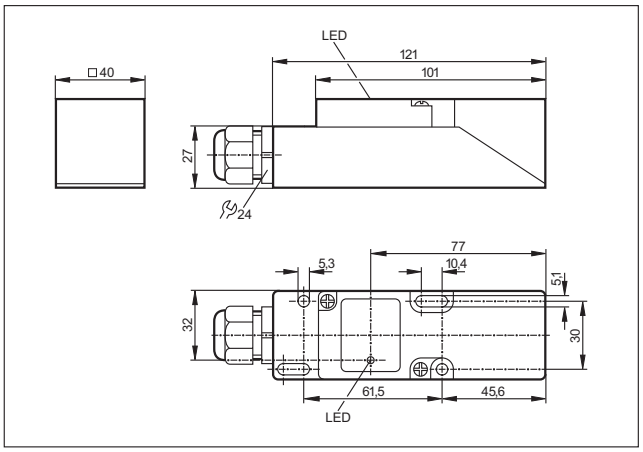

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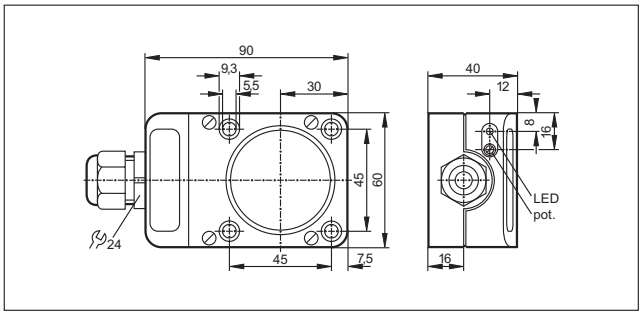

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