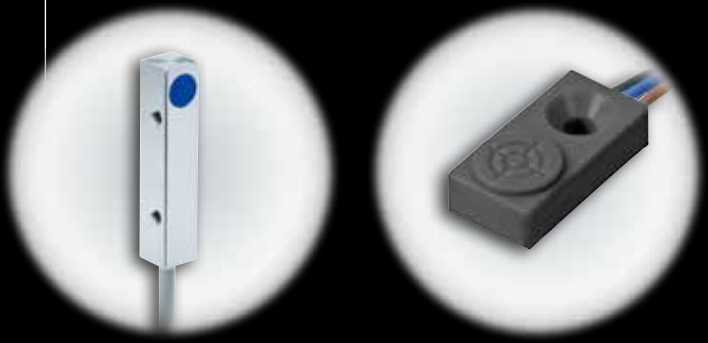
Inductive sensors

The metal detectors

Cubic housings from
from Page 702

- *Variety of housing sizes for numerous applications*
- *Plastic or metal housing options*
- *Switching distances from 1.5 mm to 35 mm*
- *Numerous connection possibilities*
- *Flush, quasi-flush and non-flush mounting possibilities*



Because of their functional principle, inductive sensors are only suitable for detecting metal objects. But they do this extremely reliably and are also very robust and resistant (e.g. regarding environmental factors), which makes them interesting for numerous industrial applications. They are mainly used wherever the detection of uniform movements is involved – for example as proximity switches for determining the position of transported machine parts such as saddles or hydraulic cylinders, for measuring rotary speeds on vehicle crankshafts, or as pulse generators for motor ignition.

Inductive sensors are extremely precise due to their high repeatability levels. Their simple design and uncomplicated commissioning ensure minimal downtimes. Whether in robotics, in assembly and handling, in factory automation or mechanical engineering: inductive sensors from SensoPart are reliable, require no maintenance, and offer versatile use thanks to the numerous housings and sizes available.

TYPICAL SENSOPART

- Reliable detection of metallic objects
- Product variants for standard or three-fold switching distances
- Robust cylindrical or cuboid metal housing options
- Simple installation thanks to integrated metric threads
- Different designs for flush, quasi-flush and non-flush mounting
- Switching or analogue output options available
- NAMUR-compliant design on request

Cylindrical housings

from Page 708

- *Variety of housing sizes for numerous applications*
- *High switching frequency of up to 5 kHz*
- *Robust stainless steel designs*
- *With switching or analogue output options*
- *Highly pressure-resistant sensors for up to 800 bar*
- *Flush, quasi-flush and non-flush mounting possibilities*
- *Full-metal "see-through" sensors (metal face)*
- *Three-fold switching distance*
- *K-factor 1, switching distance independent of type of metal*



Inductive sensors with standard switching distance

Housing size	Part no.	Type code	Installation	Switching distance	Swichting output	Connection type	Page
ø 3 mm	996-09390	IS 33-52	Flush	0.6 mm	PNP / NO	Cable, 3-wire	708
	996-09444	ISN 44-20	Flush	0.8 mm	NAMUR	Cable, 2 m, 2-wire	709
ø 6.5 mm	996-09488	ISZ 46-02	Flush	1.5 mm	PNP / NO	Cable 2 m, 3-wire	713
	996-50590	IS 46-12	Flush	1.5 mm	PNP / NO	Plug, M8x1, 3-wire	714
	996-09401	IS 46-02	Flush	1.5 mm	PNP / NO	Cable, 2 m, 3-wire	714
	996-50586	IS 56-12	Quasi-flush	3 mm	PNP / NO	Plug, M8x1, 3-pin	716
	996-09963	IS 56-42	Quasi-flush	3 mm	PNP / NO	Plug, M12x1, 4-pin	716
	996-09409	IS 56-02	Quasi-flush	3 mm	PNP / NO	Cable, 2 m, 3-wire	716
M4	996-09397	IS 34-52	Flush	0.6 mm	PNP / NO	Cable, 2 m, 3-wire	710
	996-51486	IT 4 BD-PSK3	Flush	1 mm	PNP / NO	Cable, 3-wire	711
M5	697-01005	IMT 5-0B8-PS-K3	Flush	0.8 mm	PNP / NO	Cablel 2 m	712
	697-01007	IMT 5-0B8-PS-M3	Flush	0.8 mm	PNP / NO	M8 3-pin	712
M8	697-01009	IMT 8-1B5-PS-K3	Flush	1.5 mm	PNP / NO	Cable 2 m	718
	697-01011	IMT 8-1B5-PS-L4	Flush	1.5 mm	PNP / NO	M12 3-pin	718
	697-01013	IMT 8-2N-PS-K3	Non-flush	2 mm	PNP / NO	Cable 2 m	720
M8	996-50624	IS 48-12T	Flush	1.5 mm	PNP / NO	Plug, M8x1, 3-pin	717
	996-09405	IS 48-02	Flush	1.5 mm	PNP / NO	Cable, 2 m, 3-wire	717
	996-50587	IS 58-12T	Flush	3 mm	PNP / NO	Plug, M8x1, 3-pin	722
	996-09965	IS 58-42	Flush	3 mm	PNP / NO	Plug, M8x1, 4-pin	722
	996-09413	IS 58-02	Flush	3 mm	PNP / NO	Cable, 2 m, 3-wire	722
	697-01015	IMT 8-2N-PS-L4	Non-flush	2 mm	PNP / NO	M12 3-pin	720
M12	697-01016	IMT 12-2B-NS-K3	Flush	2 mm	NPN / NO	Cable 2 m	724
	697-01017	IMT 12-2B-PS-K3	Flush	2 mm	PNP / NO	Cable 2 m	724
	697-01019	IMT 12-2B-PS-L4	Flush	2 mm	PNP / NO	M12 3-pin	724
	697-01023	IMT 12-4N-PS-L4	Non-flush	4 mm	PNP / NO	M12 3-pin	726
	996-51479	IS 512-02 AI	Quasi-flush	6 mm	Analogue output 0 … 10V / 4 … 20 mA	Cable, 4-wire	742

Selection Table Inductive Sensors

Inductive sensors with standard switching distance							
Housing size	Part no.	Type code	Installation	Switching distance	Swichting output	Connection type	Page
M18	697-01027	IMT 18-5B-PS-L4	Flush	5 mm	PNP / NO	M12 3-pin	731
	697-01031	IMT 18-8N-PS-L4	Non-flush	8 mm	PNP / NO	M12 3-pin	732
	996-09435	IS 518-02 A	Quasi-flush	10 mm	Analogue output 0 … 10V / 4 … 20 mA	Cable, 4-wire	743
M30	697-01033	IMT 30-10B-PS-K3	Flush	10 mm	PNP / NO	Cable 2 m	737
	697-01035	IMT 30-10B-PS-L4	Flush	10 mm	PNP / NO	M12 3-pin	737

Inductive sensors with increased switching distance							
Housing size	Part no.	Type code	Installation	Switching distance	Swichting output	Connection type	Page
ø 6.5 mm	697-01040	IDT 6-2B-PS-K3	Flush	2 mm	PNP / NO	Cable 2 m	715
	697-01042	IDT 6-2B-PS-M3	Flush	2 mm	PNP / NO	M8 3-pin	715
M8	697-01044	IMT 8-2B-PS-K3	Flush	2 mm	PNP / NO	Cable 2 m	720
	996-51456	IS 58-14-S	Non-flush	6 mm	PNP / NO	Plug, M8x1, 3-pin	723
	996-51460	IS 58-44-S	Non-flush	6 mm	PNP / NO	Plug, M8x1, 4-pin	723
	996-51461	IS 58-04-S	Non-flush	6 mm	PNP / NO	Cable, 3-wire	723
	697-01046	IMT 8-2B-PS-M3	Flush	2 mm	PNP / NO	M8 3-pin	720
M12	996-51487	IT 12 BM-PSK3	Flush	6 mm	PNP / NO	Cable, 3-wire	728
	996-51480	IT 12 BM-PSL4	Flush	6 mm	PNP / NO	Plug, M12x1, 4-pin	728
	996-51481	IT 12 NBM-PSL4	Non-flush	10 mm	PNP / NO	Plug, M12x1, 4-pin	728
	996-09969	IS 512-42	Quasi-flush	6 mm	PNP / NO	Plug, M12x1, 4-pin	729
	996-09421	IS 512-02	Quasi-flush	6 mm	PNP / NO	Cable, 2 m, 3-wire	729
M12	996-09420	IS 512-01	Quasi-flush	6 mm	NPN / NO	Cable, 2 m, 3-wire	729
	996-51449	IS 512-44-S	Non-flush	10 mm	PNP / NO	Plug, M12x1, 4-pin	730
	996-51458	IS 512-04-S	Non-flush	10 mm	PNP / NO	Cable, 2 m, 3-wire	730
	697-01048	IMT 12-4B-PS-K3	Flush	4 mm	PNP / NO	Cable 2 m	726
	697-01050	IMT 12-4B-PS-L4	Flush	4 mm	PNP / NO	M12 3-pin	726
	697-01051	IMT 12-4B-NS-L4	Flush	4 mm	NPN / NO	M12 3-pin	726
M18	697-01052	IMT 18-8B-PS-K3	Flush	8 mm	PNP / NO	Cable 2 m	732
	697-01054	IMT 18-8B-PS-L4	Flush	8 mm	PNP / NO	M12 3-pin	732
	996-09973	IS 518-42	Quasi-flush	12 mm	PNP / NO	Plug, M12x1, 4-pin	734
	996-09429	IS 518-02	Quasi-flush	12 mm	PNP / NO	Cable, 2 m, 3-wire	734
	996-51453	IS 518-44-S	Non-flush	20 mm	PNP / NO	Plug, M12x1, 4-pin	735
	996-51450	IS 518-04-S	Non-flush	20 mm	PNP / NO	Cable, 3-wire	735
	996-51482	IT 18 BM-PSL4	Flush	10 mm	PNP / NO	Plug, M12x1, 4-pin	736
	996-51483	IT 18 NBM-PSL4	Non-flush	20 mm	PNP / NO	Plug, M12x1, 4-pin	736
M30	697-01058	IMT 30-15B-PS-L4	Flush	15 mm	PNP / NO	M12 3-pin	738
	996-09905	IS 530-42	Quasi-flush	22 mm	PNP / NO	Plug, M12x1, 4-pin	739
	996-09437	IS 530-02	Quasi-flush	22 mm	PNP / NO	Cable, 2 m, 3-wire	739
	996-51454	IS 530-44-S	Quasi-flush	22 mm	PNP / NO	Plug, M12x1, 4-pin	740
	996-51452	IS 530-04-S	Quasi-flush	22 mm	PNP / NO	Cable, 2 m, 3-wire	740
	996-51484	IT 30 BM-PSL4	Flush	20 mm	PNP / NO	Plug, M12x1, 4-pin	741
	996-51485	IT 30 NBM-PSL4	Non-flush	40 mm	PNP / NO	Plug, M12x1, 4-pin	741

Cubic inductive sensors							
Housing size	Part no.	Type code	Installation	Switching distance	Swichting output	Connection type	Page
40 x 26 x 12 mm	697-01061	IT 12-4B-PS-K3	Flush	4 mm	PNP / NO	Cable 2 m	706
	697-01063	IT 12-4B-PS-M3	Flush	4 mm	PNP / NO	M8 3-pin	706
	697-01065	IT 12-8N-PS-K3	Non-flush	8 mm	PNP / NO	Cable 2 m	706
	697-01067	IT 12-8N-PS-M3	Non-flush	8 mm	PNP / NO	M8 3-pin	706
16 x 8 x 5 mm	697-01068	IT 8-1B5K-PS-K3	Flush	1.5 mm	PNP / NO	Strand, 0.5 m, 3-wire	702
27 x 10 x 7 mm	697-01070	IT10-4N-PS-K3	Non-flush	4 mm	PNP / NO	Cable 2 m	703
25 x 5 x 5 mm	996-50585	IS 455-02	Flush	0.8 mm	PNP / NO	Cable, 2 m, 3-wire	704
40 x 8 x 8 mm	996-50589	IS 588-02	Quasi-flush	3 mm	PNP / NO	Cable, 2 m, 3-wire	705