

SICK.COM



PRODUCTS AT A GLANCE

CYLINDER AND INDUCTIVE SENSORS INCLUSIVE PASSIVE CONNECTIVITY

Cylinder sensors for T- and C-slot, inductive proximity sensors, cables and connectors

SICK

Sensor Intelligence

VERY GOOD PRICE- PERFORMANCE RATIO FOR T- AND C-SLOT

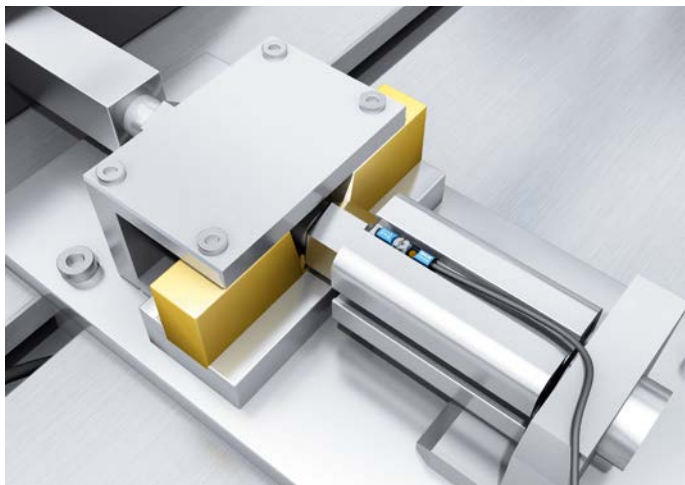
SICK cylinder sensors reliably detect the piston position in pneumatic drives. They can be mounted directly into all cylinders with standard T- or C-slots. SICK also has an extensive range of adapters that enable cylinder sensors to be used with other cylinder types. SICK cylinder sensors are characterized by their simple mounting principle: Insert the sensor into the slot and rotate the fixing screw a quarter turn to attach it securely to the cylinder.



BENEFITS

- Sensors for a wide range of applications: The sensor design fits into all standard C-slots used around the world, regardless of the cylinder profile or make
- Quick and easy mounting using a hex key or flat-head screwdriver
- Low maintenance costs as the sensor is resistant to shock and vibration, meaning it does not slide about in the slot
- Saves time on initial installation and when replacing devices as the sensor can be easily inserted into the slot from above. The end caps of the cylinder do not have to be removed

APPLICATIONS



MONITORING OF CLAMPING CYLINDERS

When the working area has been enabled, the clamping cylinders must first be introduced to fix the parts. The SICK cylinder sensor precisely detects the position of the short-stroke clamping cylinder.



RELIABLE POSITIONING OF TEST AND ASSEMBLY PARTS

The correct positioning of test and assembly parts at workstations is crucial for the process result. SICK cylinder sensors are the universal solution for all standard cylinders, linear guides, and grippers with a C-slot.



T-slot

**MZT7 CYLINDER SENSORS -
ELECTRONIC SWITCHES**

More information:

www.sick.com/IME


Housing length	Length of cable	Switching output	Connection	Type	Part number
29.5 mm	0.3 m	PNP, N/O	Cable with M8 3-pin connector	MZT7-03VPS-KP0	1070814
		NPN, N/O	Cable with M8 3-pin connector	MZT7-03VNS-KP0	1070819
	0.5 m	PNP, N/O	Cable with M8 3-pin connector, with knurled nuts	MZT7-03VPS-KR0	1070821
		NPN, N/O	Cable with M8 3-pin connector, with knurled nuts	MZT7-03VNS-KR0	1070823
	0.3 m	PNP, N/O	Cable with M12 3-pin connector, with knurled nuts	MZT7-03VPS-KQ0	1070825
		NPN, N/O	Cable with M12 3-pin connector, with knurled nuts	MZT7-03VNS-KQ0	1070827
	2 m	PNP, N/O	Cable, 3-wire	MZT7-03VPS-KU0	1070829
		NPN, N/O	Cable, 3-wire	MZT7-03VNS-KU0	1070831



T-slot

**RZT7 CYLINDER SENSORS -
REED SWITCHES**

More information:

www.sick.com/RZT7


Housing length	Length of cable	Switching output	Connection	Type	Part number
29.5 mm	0.3 m	Reed, N/O	Cable with M8 3-pin connector	RZT7-03ZRS-KP0	1070847
	0.5 m	Reed, N/O	Cable with M8 3-pin connector, with knurled nuts	RZT7-03ZRS-KR0	1070848
	0.3 m	Reed, N/O	Cable with M12 3-pin connector, with knurled nuts	RZT7-03ZRS-KQ0	1070849
	2 m	Reed, N/O	Cable, 3-wire	RZT7-03ZRS-KU0	1070850
			Cable, 2-wire	RZT7-03ZUS-KU0	1070861



C-slot

**MZC1 CYLINDER SENSORS -
ELECTRONIC SWITCHES**

More information:

www.sick.com/c/g269363


Housing length	Length of cable	Switching output	Connection	Type	Part number
23.7 mm	0.3 m	PNP, N/O	Cable with M8 3-pin connector	MZC1-2V2PS-KP0	1059735
		NPN, N/O	Cable with M8 3-pin connector	MZC1-2V2NS-KP0	1059744
		PNP, N/O	Cable with M8 3-pin connector, with knurled nuts	MZC1-2V2PS-KR0	1059737
		NPN, N/O	Cable with M8 3-pin connector, with knurled nuts	MZC1-2V2NS-KR0	1059742
	2 m	PNP, N/O	Cable with M12 3-pin connector, with knurled nuts	MZC1-2V2PS-KQ0	1059736
		NPN, N/O	Cable with M12 3-pin connector, with knurled nuts	MZC1-2V2NS-KQ0	1077026
		PNP, N/O	Cable, 3-wire	MZC1-2V2PS-KU0	1059738
		NPN, N/O	Cable, 3-wire	MZC1-2V2NS-KU0	1059743



C-slot

**RZC1 CYLINDER SENSORS -
REED SWITCHES**

More information:

www.sick.com/RZC1


Housing length	Length of cable	Switching output	Connection	Type	Part number
26.3 mm	0.3 m	Reed, N/O	Cable with M8 3-pin connector	RZC1-04ZRS-KP0	1059747
	0.5 m	Reed, N/O	Cable with M8 3-pin connector, with knurled nuts	RZC1-04ZRS-KRD	1060130
	0.3 m	Reed, N/O	Cable with M12 3-pin connector, with knurled nuts	RZC1-04ZRS-KQ0	1059745
	2 m	Reed, N/O	Cable, 3-wire	RZC1-04ZRS-KU0	1059746
			Cable, 2-wire	RZC1-04ZUS-KU0	1059750

RELIABLE, POWERFUL, RUGGED

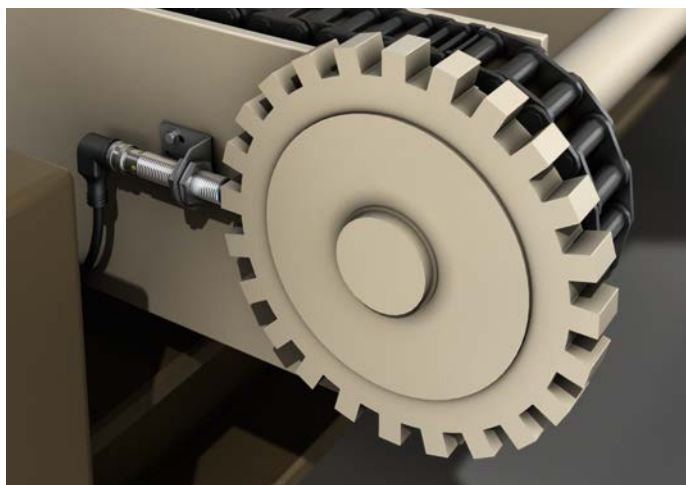
Millions of inductive proximity sensors are currently in use in virtually all industries. They detect metal objects contactlessly and are characterized by their long service life and extreme ruggedness. With the latest ASIC technology, SICK sensors offer the ultimate in precision and reliability. SICK can provide the right solution to meet your requirements every time – from cylindrical or rectangular standard sensors with single, double or triple operating distance, to special sensors for explosive zones and harsh environments. Our sensors are the intelligent, reliable route to implementing industry-specific and customized solutions to any task involving automation.



BENEFITS

- Reliable detection in all application conditions
- Precise, powerful and communicative
- Extensive standard portfolio; no matter your application, SICK has the perfect sensor to meet your requirements

APPLICATIONS



SPEED MEASUREMENT

In conjunction with a gear wheel specifically designed for this purpose, the inductive proximity sensors are ideal for measuring the speed of boards.



DUAL DETERMINATION OF THE VALVE POSITION

Dual position determination at valve blocks gives great flexibility at the connection pipes, so there is no need to perform manual coupling or decoupling. Two inductive proximity sensors ideally control the position of the valve.



IME - INDUCTIVE STANDARD
SENSORS FOR ECONOMICAL USE
IN INDUSTRIAL ENVIRONMENTS

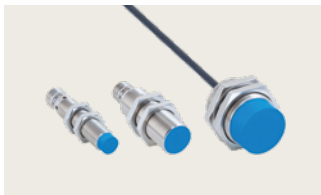
- Enclosure rating: IP67
- Ambient temperature: -25 °C ... +70 °C
- Nickel-plated brass housing

More information:

www.sick.com/IME



Size	Sensing range	Mounting	Switching output	Connection	Type	Part number
M8	2 mm	flush	PNP, N/O	Connector M8, 3-pin	IME08-02BPSZT0S	1040870
	4 mm	non-flush	PNP, N/O	Connector M8, 3-pin	IME08-04NPSZT0S	1040886
M12	4 mm	flush	PNP, N/O	Connector M12, 4-pin	IME12-04BPSZC0S	1040764
	8 mm	non-flush	PNP, N/O	Connector M12, 4-pin	IME12-08NPSZC0S	1040780
M18	8 mm	flush	PNP, N/O	Connector M12, 4-pin	IME18-08BPSZC0S	1040966
	12 mm	non-flush	PNP, N/O	Connector M12, 4-pin	IME18-12NPSZC0S	1040982
M30	15 mm	flush	PNP, N/O	Connector M12, 4-pin	IME30-15BPSZC0S	1041030
	20 mm	non-flush	PNP, N/O	Connector M12, 4-pin	IME30-20NPSZC0S	1041046



IMG - INDUCTIVE STANDARD
SENSORS FOR ECONOMICAL USE
IN OUTDOOR APPLICATIONS

- Enclosure rating: IP67, IP68, IP69K
- Ambient temperature: -40 °C ... +85 °C
- Nickel-plated brass housing

More information:

www.sick.com/IMG



Size	Sensing range	Mounting	Switching output	Connection	Type	Part number
M12	4 mm	flush	PNP, N/O	Connector M12, 4-pin	IMG12-04BPSZC0S	1094334
			NPN, N/O	Cable, 2 m, PUR	IMG12-04BPSZU2S	1108130
				Cable, 2 m, PUR	IMG12-04BNSZU2S	1135523
	8 mm	non-flush	PNP, N/O	Connector M12, 4-pin	IMG12-08NPSZC0S	1135516
M18	8 mm	flush	PNP, N/O	Cable, 2 m, PUR	IMG12-08NPSZU2S	1135517
				Connector M12, 4-pin	IMG18-08BPSZC0S	1135566
				Cable, 2 m, PUR	IMG18-08BPSZU2S	1135567
	12 mm	non-flush	PNP, N/O	Connector M12, 4-pin	IMG18-12NPSZC0S	1135572
				Cable, 2 m, PUR	IMG18-12NPSZU2S	1135573
				Cable, 2 m, PUR	IMG18-12NNSZU2S	1135585
M30	15 mm	flush	PNP, N/O	Connector M12, 4-pin	IMG30-15BPSZC0S	1135615
	20 mm	non-flush	PNP, N/O	Connector M12, 4-pin	IMG30-20NPSZC0S	1135621



IQG - COMPACT RECTANGULAR INDUCTIVE
SENSORS WITH LONG SENSING RANGE
FOR HARSH CONDITIONS

- Enclosure rating: IP67, IP68, IP69K
- Ambient temperature: -25 °C ... +85 °C
- Plastic housing

More information:

www.sick.com/IQG



Size	Sensing range	Mounting	Switching output	Connection	Type	Part number
40 mm x 40 mm x 66 mm	20 mm	flush	PNP, complementary	Connector, M12	IQ40-20BPPKC0K	1071553
	40 mm	non-flush	PNP, complementary	Connector, M12	IQ40-40NPPKC0K	1071552
40 mm x 40 mm x 118 mm	20 mm	flush	PNP, complementary	Cable gland	IQ40-20BPPKK0S	1071860
	40 mm	non-flush	PNP, complementary	Cable gland	IQ40-40NPPKK0S	1071863

SEAMLESS CONNECTIVITY – A PERFECT FIT FOR INDUSTRIAL SENSORS AND DEVICES

SICK passive connectivity provides a wide range of standardized cables and connectors. Discover reliable products, thoughtfully designed for industrial needs. Enhance operational efficiency and accuracy by combining SICK sensors and devices with SICK passive connectivity. Simplify complex industrial eco-systems while ensuring robust connections.



BENEFITS

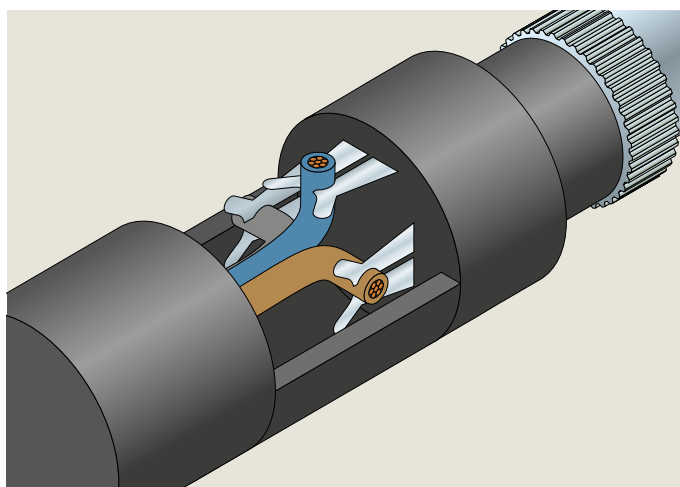
- Broad range of product lines and product variants to guarantee an ideal application and product fit
- High availability, attractive prices paired with a high level of customization
- High quality, fully-certified rugged design to meet stringent industrial requirements

APPLICATIONS



SENSOR-ACTUATOR CABLES

When installing sensors and devices with an IO or IO-Link interface, SICK sensor-actuator cables are used to enable voltage supply and signal transmission. Shielding, LED connector indicators and further features provide additional possibilities for tailoring solutions to application requirements.



FIELD-WIREABLE CONNECTORS

Saving costs while maintaining, repairing and adjusting cables is one of the main reasons for the use of field-wireable connectors. Connector variants with different termination types are available depending on the cable dimensions and preferred assembly method. From conventional and rugged to simple and fast, the full range is available.



Sensor-actuator cables
PVC

More information:
www.sick.com/c/g575961



Connector A	Cable	Connector B	Type	Part number
M12, 4-pin, female straight	PVC, 5 m, 4 x 0.34 mm ² unshielded	Flying leads	YF2A14-050VB3XLEAX	2096235
M8, 4-pin, female straight	PVC, 5 m, 4 x 0.25 mm ² unshielded	Flying leads	YF8U14-050VA3XLEAX	2095889
M12, 4-pin, female angled	PVC, 5 m, 4 x 0.34 mm ² unshielded	Flying leads	YG2A14-050VB3XLEAX	2095897
M8, 3-pin, female straight	PVC, 5 m, 3 x 0.25 mm ² unshielded	Flying leads	YF8U13-050VA1XLEAX	2095884
M12, 4-pin, female straight	PVC, 10 m, 4 x 0.34 mm ² unshielded	Flying leads	YF2A14-100VB3XLEAX	2096236
M12, 5-pin, female straight	PVC, 5 m, 5 x 0.34 mm ² unshielded	Flying leads	YF2A15-050VB5XLEAX	2096240



Sensor-actuator cables
HALOGEN-FREE PUR

More information:
www.sick.com/c/g575961



Connector A	Cable	Connector B	Type	Part number
M8, 3-pin, female straight	PUR, 5 m, 3 x 0.25 mm ² unshielded	Flying leads	YF8U13-050UA1XLEAX	2094788
M12, 5-pin, female straight	PUR, 10 m, 5 x 0.34 mm ² unshielded	Flying leads	YF2A15-100UB5XLEAX	2095619
M8, 4-pin, female straight	PUR, 5 m, 3 x 0.25 mm ² unshielded	Flying leads	YF8U14-050UA3XLEAX	2094792
M12, 4-pin, female straight	PUR, 5 m, 4 x 0.34 mm ² unshielded	Flying leads	YF2A14-050UB3XLEAX	2095608
M12, 5-pin, female straight	PUR, 5 m, 5 x 0.34 mm ² unshielded	Flying leads	YF2A15-050UB5XLEAX	2095618
M12, 4 pin, female angled	PUR, 5 m, 4 x 0.34 mm ² unshielded	Flying leads	YG2A14-050UB3XLEAX	2095767



Field-wirable connectors
SCREW-TYPE

More information:
www.sick.com/c/g575962



Connector A	Cable fit	Termination method	Type	Part number
M12, 4-pin, male, straight	≤ 0.75 mm ² , 4.0 mm ... 6.0 mm	Screw-type	STE-1204-G	6009932
M12, 4-pin, female, straight	≤ 0.75 mm ² , 4.0 mm ... 6.0 mm	Screw-type	DOS-1204-G	6007302
M12, 4-pin, female, angled	≤ 0.75 mm ² , 4.0 mm ... 6.0 mm	Screw-type	DOS-1204-W	6007303
M12, 5-pin, female, straight	≤ 0.75 mm ² , 4.0 mm ... 6.0 mm	Screw-type	DOS-1205-G	6009719
M12, 5-pin, male, straight	≤ 0.75 mm ² , 4.0 mm ... 6.0 mm	Screw-type	STE-1205-G	6022083
M8, 3-pin, male, straight	0.14 mm ² ... 0.5 mm ² , 3.5 mm ... 5.0 mm	Screw-type	STE-0803-G	6037322



CUSTOMIZATION

SICK offers a complete sensor solution portfolio to meet all standard requirements and connectivity. Cannot find a suitable sensor or passive connectivity variant for your needs? SICK plans and implements tailor-made sensor and passive connectivity products to help you achieve a greater competitive advantage.

SICK AT A GLANCE

SICK is a globally leading company in intelligent sensors and sensor solutions. With over 10,000 employees, more than 60 subsidiaries and equity investments as well as numerous agencies worldwide, SICK is always close to its customers.

With a unique range of products and services for factory and logistics automation, SICK creates added value along the entire value chain of its customers. In addition, SICK brings extensive industry and application experience as well as a deep understanding of its customers' processes and requirements.

Partnering for the better, optimizing productivity, elevating quality, and protecting health and safety – this is what SICK stands for.

THAT IS “SENSOR INTELLIGENCE”.