### product news



# Our magnetic sensors begin where others end.



## Now in full-metal housing: Reliable switch point even in the event of mechanical tolerances.

Long sensing ranges even through non-magnetisable metals.

No mutual interference of the sensors.

Temperature-stable and reproducible switch point.

IP 69K up to 100 °C in full-metal food-grade housing.

Impact, shock and vibration-resistant for demanding applications.



Full-metal magnetic sensors for early detection of approaching objects.

#### Use in hygienic areas and the food industry

Magnetic sensors can be installed behind covers of stainless steel, non-ferrous metal, plastic, wood or glass which ensures inexpensive and fast mounting. There is no need for bore holes or flush installation.

The sensors are also used for cleaning pipes to detect pigs through pipe walls.

#### Mechanically demanding applications

Thanks to the tolerant response behaviour, reliable switchpoint detection is also ensured with high mechanical tolerances. Long-life applications can be found on telescope and swivel arms or industrial trucks for example.



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Magnetic sensors, cylinder sensors



Туре	Sensing range [mm]	Protection rating	Output function	Electrical design	Ambient temperature [°C]	l <sub>load</sub> [mA]	Order no.		
M12 connector, 4-pole									
M12	60	IP 65, IP 67	NO	DC, PNP	-2575	200	MFS211		
M12	60	IP 65, IP 67	NO	DC, NPN	-2575	200	MFS209		
M12	60	IP 65, IP 67	NC	DC, PNP	-2575	200	MFS210		
M12	60	IP 68, IP 69K	NO	DC, PNP	0100	100	MFT202		
M12 connector, 4-pole									
M18	70	IP 65, IP 67	NO	DC, PNP	-2575	200	MGS204		
M18	70	IP 65, IP 67	NO	DC, NPN	-2575	200	MGS205		
M18	70	IP 65, IP 67	NC	DC, PNP	-2575	200	MGS206		
M18	70	IP 68, IP 69K	NO	DC, PNP	0100	100	MGT203		

#### Accessories

Туре	Description	Order no.
00	Angle bracket for type M12, stainless steel	E1073
00	Angle bracket for type M18, stainless steel	E1073
	Mounting clamp M12, PC	E1104
100	Mounting clamp M18, PC	E1104
	Mounting clip for type M12, stainless steel (1.4310, 301)	E1153
	Mounting clip for type M18, stainless steel (1.4310, 301)	E1153
	Damping element M1.0, samarium cobalt	E1074
	Damping element M2.0, alnico	E1075
0	Damping element M3.0, barium ferrite	E1075
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	Damping element M4.0, barium ferrite	E1075
	Damping element M5.0, barium ferrite	E1075
•	Damping element M5.1, barium ferrite with plastic sheathing ABS	E1075
	Damping element M4.1, barium ferrite / stainless steel (1.4571, 316Ti)	E1180
2	Damping element M4.1, barium ferrite / stainless steel (1.4571, 316Ti) Damping element M3.1, barium ferrite / stainless steel (1.4571, 316Ti)	E1229
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Common technical data

Operating voltage	[V]	1030
Current consumption	[mA]	< 20
Hysteresis	[% of Sr]	110
Protection class		III
Switching frequency	[Hz]	5000
Short-circuit protection, pu	•	
Reverse polarity / overload protection		• / •
Voltage drop	[V]	< 2.5
Function display	LED	yellow (4 X 90°)
Housing length	[mm]	60
Housing material		high-grade stainless steel

#### **Connectors and splitter boxes**

Туре	Description	Order no.
	Socket, M12, 4-pole, 5 m orange, PVC cable	EVT001
~	Socket, M12, 4-pole, 10 m orange, PVC cable	EVT002
	Socket, M12, 4-pole, 5 m orange, PVC cable	EVT004
er al	Socket, M12, 4-pole, 10 m orange, PVC cable	EVT005
	Socket, M12, 4-pole, 5 m orange, PVC cable, LED	EVT007
~	Socket, M12, 4-pole, 10 m orange, PVC cable, LED	EVT008