

MS400400

MAGNETIC SENSORS • PROXIMITY SWITCHES

Magnetic proximity switches are contact-free sensors. They detect magnetic objects and - or magnets, regardless of whether they move or not. Since magnetic fields penetrate all non-magnetizable materials, the sensors can detect magnets through walls made of nonferrous heavy metal, stainless steel, aluminum, plastic, wood or through excessive sailing, for instance. The achievable sensing range of the devices depends on the strength of the affecting magnetic field. Magnetic sensors are used for positioning (e.g. position checks on hoisting gear), speed checks (e.g. on conveyor belts or transmission cog wheels through the aluminum housings) or for position detection (e.g. of goods carriers).



MECHANICAL DATA

Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	Plastic
Increased ambient temperatures > 80°C	No
Metal housing	No
Number of wires	4
Sensor height	40 mm
Sensor length	120 mm
Sensor width	40 mm
Strong vibration / motion	No
Wire cross section	2.5 mm ²

ELECTRICAL DATA

Cross/short circuit identification possible	Yes
Low sensitivity	No
Low switching hysteresis	No
Max. output current	200 mA
No-load current	30 mA
Number of switching outputs	2
Operating voltage	10 V ... 30 V
Reed contact	Yes
Reverse polarity protection	Yes
Setting via teach-in	No
Short-circuit-proof	Yes
Suitable for safety functions	No
Switching distance	25 mm
Switching frequency	1000 Hz
Two switching points	No
Type of electrical connection	Clamp
Type of switching function	Anticoincidence

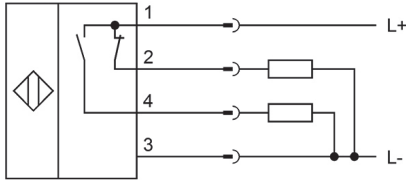
ELECTRICAL DATA

Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

OTHER DATA

Cylinder sensors	No
Harsh environmental conditions	No
Metallic sensor surface	No
Oil and cooling lubricants	No
Short travel path	No

CONNECTION



Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 2 = PNP NC, 3 = L-, 4 = PNP NO

DIMENSIONAL DRAWING

INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!