

# Magnetic Proximity Switches

## MHM



**Magnetic proximity switches for heavy industry**

**Large operating temperature: -40 °F to +338 °F**

**High reliability – Waterproof (IP65)**

**MHM** sensors detect a variation of the magnetic field and are used in conjunction with a magnet. They can detect magnetic objects through non-magnetic material or the magnetic field can be transmitted away from difficult environment by using magnetic conductors.

They have been specially designed for heavy industries.

The choice of magnets depends on detection distance and material type of the support. The detection distance will be longer for magnets fixed on steel. On steel, the fixing screws should be non-magnetic.

If the magnets are mounted close one to the other, separated by less than 60 mm, the polarity of magnet should be alternately North-South then South-North.

### Typical applications

These sensors are used for position control of mechanics in high ambient temperature.

- Continuous caster
- Reheating furnace
- Cooling bed
- Conveyors

Lt 2520

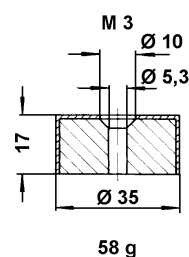
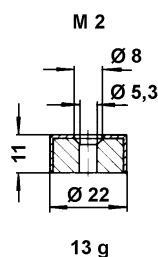
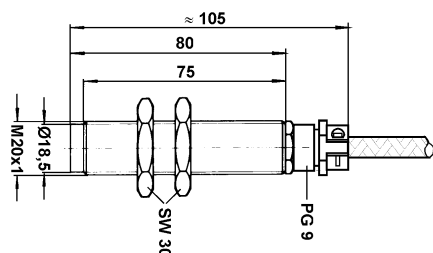


## Specifications

Output	
Switching capacity	60 VA / 2A / 250 V $\approx$
Detection range with M2	$\approx$ 11 mm
with M3	$\approx$ 40 mm
Switching hysteresis	$\approx$ 5 mm
Repeatability	0,2 mm (-40°F to 338 °F)
Mechanical service life	> 10 <sup>9</sup> cycles
Max. commutation frequency	60 Hz
Working temperature	-40 to 170 °C
Housing	Brass
Protection	IP65
Cable (1 m / 2 m / 5 m, other length on request)	Silicone with protective braid made of galvanized steel



## Dimensions



## Connection / Installation

Connection	Contact protection for inductive loads	Installation Instructions
<p>(ISD)</p> <p>(FSE)</p>	<p>230V : R = 820 <math>\Omega</math> C = 0,33 <math>\mu</math>F 115V : R = 470 <math>\Omega</math> C = 0,33 <math>\mu</math>F</p> <p>= MHM DIODE</p>	<p>A 37 Steel</p> <p><math>\approx</math> 30</p>

## Reference for order

Proximity switch: **MHM25FSE L=1**  
**MHM25FSE L=2**  
**MHM25FSE L=5**

Magnet: **M2B** : polarity 1 (blue color)  
**M2R** : polarity 2 (red color)  
**M3B** : polarity 1 (blue color)  
**M3R** : polarity 2 (red color)

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