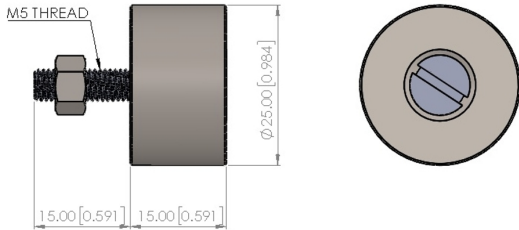
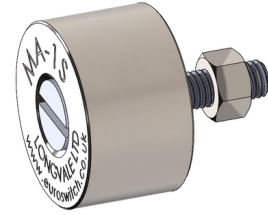


Magnetic Actuator

MA-1S

For extended sensing with ES Series Proximity Switches

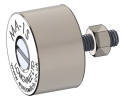
The Euroswitch ES Series proximity switches use a “Hermetically Sealed Reed Element”. Reed switches are electromechanical devices that detect the position of a magnetic field; therefore, they require an external magnetic actuator to operate. Detailed below are our standard range of magnets designed to give solutions to a multitude of applications.



MA-1S Specifications

| | |
|---------------|----------------------|
| Body Material | 316L Stainless Steel |
| Dimensions | Ø 25mm x 30mm |
| Mounting | M5 x 15mm |

Magnetic Actuator Combinations



| Switch Model | MA-1S Sensing Range | Alternative Magnets | MA-2S Sensing Range | MA-3S Sensing Range | MA-4S / MA-4SN Sensing Range | MA-7S / MA-7SN Sensing Range | MA-8S / MA-8N Sensing Range | MA-9S Sensing Range |
|--------------|---------------------|---------------------|---------------------|---------------------|------------------------------|------------------------------|-----------------------------|---------------------|
| ES-0 | 6.0mm (0.24") | | 3.0mm (0.12") | 18.0mm (0.71") | 8.0mm (0.31") | 10.0mm (0.39") | 8.0mm (0.31") | 6.0mm (0.24") |
| ES-1 | 6.0mm (0.24") | | 3.0mm (0.12") | 18.0mm (0.71") | 8.0mm (0.31") | 10.0mm (0.39") | 8.0mm (0.31") | 6.0mm (0.24") |
| ES-2 | 10.0mm (0.39") | | 6.0mm (0.24") | 26.0mm (1.02") | 11.0mm (0.43") | 13.0mm (0.51") | 11.0mm (0.43") | 9.0mm (0.35") |
| ES-3 | 8.0mm (0.31") | | N/A | N/A | 8.0mm (0.31") | 16.0mm (0.63") | 8.0mm (0.31") | 8.0mm (0.31") |
| ES-4 | 12.0mm (0.47") | | N/A | N/A | 12.0mm (0.47") | 20.0mm (0.79") | 12.0mm (0.47") | 12.0mm (0.47") |
| ES-5 & 6 | 8.0mm (0.31") | | N/A | N/A | 8.0mm (0.31") | 16.0mm (0.63") | 8.0mm (0.31") | 8.0mm (0.31") |
| ES-7 & 8 | 8.0mm (0.31") | | N/A | N/A | 8.0mm (0.31") | 16.0mm (0.63") | 8.0mm (0.31") | 8.0mm (0.31") |
| ES-9 & 10 | 8.0mm (0.31") | | N/A | N/A | 8.0mm (0.31") | 16.0mm (0.63") | 8.0mm (0.31") | 8.0mm (0.31") |
| ES-11 & 12 | 8.0mm (0.31") | | N/A | N/A | 8.0mm (0.31") | 16.0mm (0.63") | 8.0mm (0.31") | 8.0mm (0.31") |
| ES-13 & 14 | 12.0mm (0.47") | N/A | N/A | 12.0mm (0.47") | 20.0mm (0.79") | 12.0mm (0.47") | 12.0mm (0.47") | |
| ES-15 & 16 | 12.0mm (0.47") | N/A | N/A | 12.0mm (0.47") | 20.0mm (0.79") | 12.0mm (0.47") | 12.0mm (0.47") | |

For detailed information please visit, www.euroswitch.com.

Operating Principles

To obtain the best results possible in your application, certain consideration should be observed.

Here are the two most typical examples of how the target would approach the ES Series Sensor.

