

## Magnetic Proximity Switches

The Tempatron Solid State Magnetic Proximity Switches and Actuator Magnets are designed to be an ideal replacement for magnetic reed switches. The switches use the latest fully encapsulated surface mount technology to provide stable 'bounce free' direct switching.

The NPN sink and PNP source outputs can switch up to 250mA to relays, programmable logic controllers, TTL, CMOS and microprocessor systems.

The magnetic proximity switch and actuator magnet can be mounted up to 15mm apart and both are sealed to IP65, making them ideal for operation in harsh environments. The sensors are powered from 7.5 to 24Vdc and have an LED to indicate output status.

### Models Available

**SMX1-D** Magnetic Proximity Switch

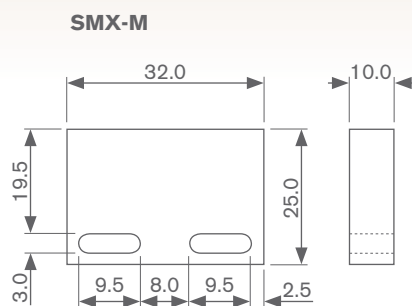
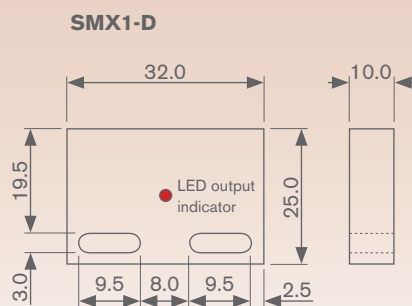
**SMX-M** Actuator Magnet

### Product Features

- Alternative to magnetic reed switches
- Solid state technology
- Small enclosure protected to IP65
- NPN sink and PNP source outputs
- 250mA rated outputs
- 7.5 to 24Vdc powered

## A cost effective alternative to magnetic reed limit switches

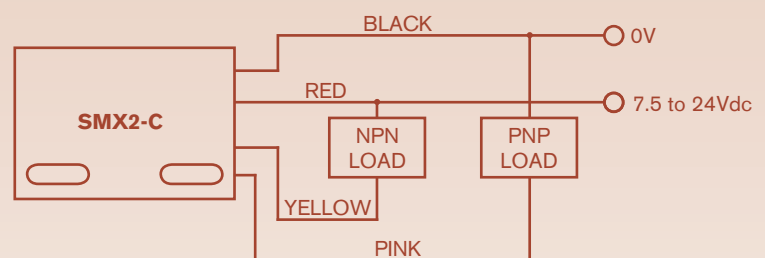
### Dimensions



All dimensions in mm

### Connections

#### SMX1-D Solid State Magnetic Switch



**Ordering information**

Model	Code	Description
	SMX1-D	Magnetic Proximity Switch
	SMX-M	Actuator Magnet

<b>Example</b>	<b>SMX1-D</b>	
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**Specification****Power Supply Voltage:**

- 7.5 to 24Vdc

**Burden:**

- 15mA nominal

**Outputs:**

- 1 x 250mA NPN current sink and  
1 x 250mA PNP current source
- both active when magnet present
- 30Vdc maximum off voltage

**Current Rating:**

- 250mA

**Leads:**

- 150mm PTFE insulated wires

**Sensing Range:**

- Up to 15mm

**Operating Temperature:**

- -10°C to 60°C

**Storage Temperature:**

- -10°C to 70°C

**Enclosure:**

- Crastin® PBT SK643 enclosure material
- Flame retardant to UL94-V0

**Enclosure Code:**

- Case IP65

**Weight:**

- 25g

Specification subject to change without notice.

Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.

**TEMPATRON**

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