

## sensor TL-W5MC2

URL:<https://www.sxplc.com/sensor-tl-w5mc2>

### Product data sheet

Sensing head size 18 mm x 10 mm x 30.5 mm

Type Square type, Unshielded

Power source DC Three-wires models

Sensing distance 5 mm  $\pm$ 10%

Setting distance 0 to 4 mm

Differential distance 10% max. of sensing distance

Sensing object Ferrous metal (Sensitivity lowers with non-ferrous metals.)

Standard sensing object Iron 18 x 18 x 1 mm

Response frequency 500 Hz (Average value)

Power supply voltage 12 to 24 VDC ripple (p-p) 10% max.

Operating voltage range 10 to 30 VDC

Current consumption 10 mA max.

Control output (Output type) NPN open collector

Control output (Switching capacity) at 12 VDC: 50 mA max. (30 VDC max.)

at 24 VDC: 100 mA max. (30 VDC max.)

Control output (Residual voltage) 1 V max. (Load current 100 mA with cable length of 2 m)

Indicator Detection indicator (red)

Operation mode NC

Protective circuit Reverse polarity protection

Surge suppressor

Ambient temperature (Operating) -25 to 70 °C

Ambient temperature (Storage) -25 to 70 °C

Ambient humidity (Operating) 35 to 95 %

Ambient humidity (Storage) 35 to 95 %

Temperature influence  $\pm 10\%$  max. of sensing distance at 23 °C in the temperature range of -25 to 70 °C

Voltage influence  $\pm 2.5\%$  max. of sensing distance at rated voltage in the rated voltage  $\pm 20\%$  range

Insulation resistance Between charged parts and the case: 50 M $\Omega$  min. at 500 VDC

Dielectric strength Between charged parts and the case: 1,000 VAC 50/60 Hz 1 min

Vibration resistance Destruction: 10 to 55 Hz, 1.5 mm double amplitude each in X, Y, and Z directions for 2 h

Shock resistance Destruction: 500 m/s<sup>2</sup> 3 times each in X, Y and Z directions

Degree of protection IEC: IP67

Company standard: Oil-proof

Connection method Pre-wired models (2 m)

Weight Package: Approx. 80 g

Material Case: Heat-resistant ABS resin

Sensing surface: Heat-resistant ABS resin

