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Super-compact Proximity Sensor

E2S-W14 1M

Unshielded, Square type, DC Three-wires models, Sensing distance 1.6 mm ±15%, NC, NPN open collector, Pre-wired models, Sensing surface Top panel

Sensing head size	5.5 mm x 5.5 mm x 19 mm
Туре	Square type, Unshielded
Power source	DC Three-wires models
Sensing distance	1.6 mm ±15%
Setting distance	0 to 1.2 mm
Operation mode	NC

Image

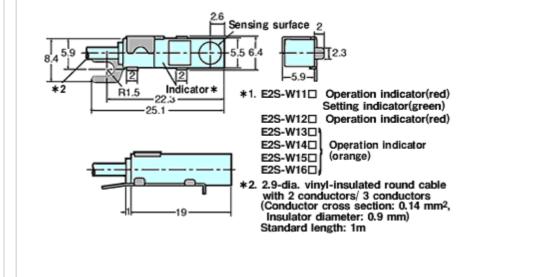
**Ratings/Performance** 

As of July 16, 2020

Sensing head size	5.5 mm x 5.5 mm x 19 mm
Туре	Square type, Unshielded
Power source	DC Three-wires models
Sensing distance	1.6 mm ±15%
Setting distance	0 to 1.2 mm
Differential distance	10% max. of sensing distance
Sensing object	Ferrous metal (Sensitivity lowers with non-ferrous metals.)
Standard sensing object	Iron 12 x 12 x 1 mm
Response frequency	1 kHz (Average value)
Power supply voltage	12 to 24 VDC ripple (p-p) 10% max.
Operating voltage range	10 to 30 VDC
Current consumption	at 24 VDC, no load: 13 mA max.
Control output (Output type)	NPN open collector
Control output (Switching capacity)	50 mA max. (30 VDC max.)
Control output (Residual voltage)	1 V max. (Load current 50 mA with cable length of 1 m)
Indicator	Operation indicator (orange)
Operation mode	NC
Protective circuit	Power supply reverse polarity protection Surge suppressor
Ambient temperature (Operating)	-25 to 70 °C
Ambient temperature (Storage)	-40 to 85 °C
Ambient humidity (Operating)	35 to 90% RH
Ambient humidity (Storage)	35 to 95% RH
Temperature influence	±15% max. of sensing distance at 23 $^\circ$ C in the temperature range of –25 to 70 $^\circ$ C

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Voltage influence	$\pm 2.5\%$ max. of sensing distance at rated voltage in the rated voltage $\pm 10\%$ range
Insulation resistance	Between charged parts and the case: 5 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
Connection method	Pre-wired models (1 m)
Weight	Package: Approx. 10 g
Material	Case: Polyarylate
Accessories	Mounting Bracket
	As of July 16, 202
Dimensions	
	As of July 16, 202



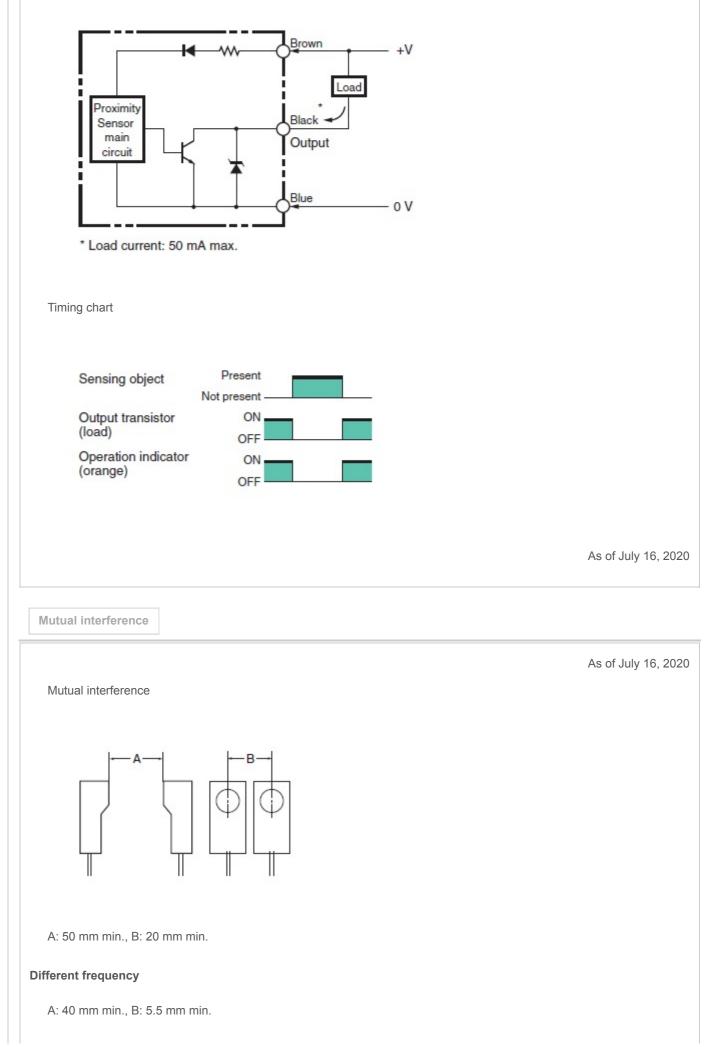
As of July 16, 2020

**Output circuit** 

Dimensions

As of July 16, 2020

Output circuit



As of July 16, 2020

