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Cylindrical Proximity Sensor

## E2A-M18KS08-WP-B1 5M



DC 3-Wire Model , Shielded , M18 , Pre-Wired Type , Sensing Distance 8 mm , Operation Mode NO , PNP Open Collector Output

about this Product Family

Inquiry of this Product

- Ratings / Performance**
  - Dimensions
  - Output circuit diagram
  - Timing chart
  - Sensing range
- Sensing distance vs. size and material of sensing object
  - Mutual interference
  - Effects of surrounding metals

As of January 21, 2013

Cylinder type sensing head size	M18
Type	Shielded
Sensing method	Inductive type
Sensing distance	8 mm -10% to +10%
Setting distance	0 to 6.4 mm
Differential distance	10% Max. of sensing distance
Sensing object	Ferrous metal (Sensitivity lowers with non-ferrous metals.)
Standard sensing object	Iron 24*24*1mm
Response frequency	0.5 kHz (average)
Power supply voltage	12 to 24 VDC (ripple(p-p) :10% Max.)
Operating voltage range	10 to 32 VDC
Current consumption	10 mA Max.
Control output (Output type)	PNP open collector output
Control output (Switching capacity)	0 to 200 mA
Control output (Residual voltage)	2 V Max. (under load current with cable length of 2m)
Indicator	Operation indicator(yellow)
Operation mode	NO
Protective circuit	Surge suppressor Output short-cut protection Output reverse polarity protection Power supply reverse polarity protection
Standard or Different frequency	Standard
Ambient temperature	Operating: -40 to 70 CEL Storage: -40 to 85 CEL (with no icing or condensation)
Ambient humidity	Operating: 35 to 95 %RH Storage: 35 to 95 %RH (with no condensation)
Temperature influence	+10% Max. of sensing distance in temperature range of -25 to +70CEL +15% Max. of sensing distance in temperature range of -40 to +70CEL (As the basis for sensing distance of 23CEL)
Voltage influence	+1% Max. of sensing distance in rated voltage range +-15%. (As the basis for sensing distance at standard power voltage)
Insulation resistance	50 MOHM Min. at 500VDC between charged parts and the case
Dielectric strength	1000 VAC 50/60 Hz for 1 minute between charged parts and the case
Vibration resistance	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions
Shock resistance	1000m/s <sup>2</sup> for 10 times each in X, Y, and Z directions
Degree of protection	IEC60529: IP67
Applicable standard (EC Directive (Low Voltage Directive))	EN60947-1 EN60947-5-2
Applicable standard (EC Directive (EMC Directive))	EMI: EN60947-5-2 Emission Enclosure: CISPR11 Group 1 class A EMS: EN60947-5-2 Immunity ESD: IEC61000-4-2 Immunity RF-interference: IEC61000-4-3 Immunity Conducted Disturbance: IEC61000-4-6 Immunity Burst: IEC61000-4-4 CE marking: Equipped
Applicable standard (CCC mark)	Not equipped
Connection method	Pre-wired models (Cable length: 5 m)
Material (case)	Brass nickel plating
Material (sensing surface)	PBT
Material (clamping nuts)	Brass nickel plating
Material (toothed washer)	Iron zinc plating

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