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Item # E3ZM-CD87, 1 m Sensing Distance Compact Rectangular Sensor

Diffuse, PNP, M8, Conn

Specifications

Features	Oil Resistant, Chemical Resistant, Wash Down Resistant
Type	Compact Rectangular Sensor
Output Type	Positive-Negative-Positive (PNP)
Operating Ambient Temperature Range (with no Icing or Condensation)	-25 to 55 ºC
Storage Ambient Temperature Range (with no Icing or Condensation)	-40 to 70 ºC
Dependencies	XS3FM4, Y92ES4M8, Y92ESPP4M8
Accessories	E39-L153, E39-L104, E39-L150, E39-L151
Body Type	Rectangular - Compact
Sensing Method	Diffuse-Reflective
Electrical Connection	M8 4-Pin Connector
Light Source	Infrared Light Emitting Diode (LED)

Operation	Light-ON (L-ON) Switch Selectable, Dark-ON (D-ON) Switch Selectable
Direct Current (DC) Supply Voltage	12 to 24 V
Length	31 mm
Width	21 mm
Height	10.8 mm
Housing Material	Stainless Steel
Indicator Operation	Operating Orange, Stability Green
Resistant	Oil Resistant, Chemical Resistant, Washdown Resistant
IP Rating	IP69K
Sensing Distance	1 m
Protection Circuits	Reversed power supply polarity protection, Output short-circuit protection, Reversed output polarity protection
Operate/Reset Response Time [Max]	1 ms
Approximate Weight (Pre-Wired) (Packed State)	150 g
Lens and Display Material	PMMA (Polymethylmethacrylate)
Degree of Protection	IEC IP67 (oil resistance to OMRON in-house standard), DIN 40050-9: IP69K
Current Consumption [Max]	40 mA
Emitter Current Consumption [Max]	20 mA
Receiver Current Consumption [Max]	20 mA
Operating Ambient Humidity Range (with no Condensation)	35 to 85 %
Storage Ambient Humidity Range (with no Condensation)	35 to 95 %
AC Dielectric Strength (50/60 Hz for 1 min)	1000 V
Vibration Resistance	Destruction: 10 to 55 Hz with a 1.5-mm double amplitude for 2 hrs each in X, Y and Z directions
Destruction Shock Resistance for 3 Times each in X, Y, and Z Directions	500 m/s^2

Minimum Insulation Resistance (at 500 VDC)	21 MO