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

Diffuse, PNP, M8, Conn


**Specifications**

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

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

**Minimum Insulation Resistance (at  
500 VDC)**

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