

Long Distance Square Inductive Proximity Sensor

# E2Q5

## Square Proximity Sensor

- M12 Plug-in connection
- Integrated short circuit and reverse polarity protection
- Active face positioning:  
Y-axis 15°, X-axis 90°  
increments



### Ordering Information

Sensing distance	Connection	Active face	Output		
				NO	NO + NC
20 mm shielded	Plug-in connector	Changable	NPN	E2Q5-N20E1-M1	E2Q5-N20E3-M1
			PNP	E2Q5-N20F1-M1	E2Q5-N20F3-M1
40 mm non-shielded			NPN	E2Q5-N40ME1-M1	E2Q5-N40ME3-M1
			PNP	E2Q5-N40MF1-M1	E2Q5-N40MF3-M1

Rating/performance

Item	Model	shielded	non-shielded
		E2Q5-N20□□-M1	E2Q5-N40M□3-M1
Sensing distance Sn		20 mm ± 10%	40 mm ± 10%
Standard target size, L x W x H, Fe 37		60 x 60 x 1 mm	120 x 120 x 1 mm
Setting distance		0 to 16,2 mm	0 to 32,4 mm
Switching frequency		150 Hz	
Sensing object		Ferrous metals	
Differential travel		15% max. of sensing distance Sn	
Operating voltage		10 to 30 VDC	
Current consumption		20 mA max.	
Control output	Type	E2Q5-N□□□E1-□□: NPN - NO E2Q5-N□□□E3-□□: NPN - NO + NC E2Q5-N□□□F1-□□: PNP - NO E2Q5-N□□□F3-□□: PNP - NO + NC	
	Load	200 mA max.	
	On-stage voltage drop	3 VDC max. (at 200 mA load current)	
Circuit protection		Reverse polarity, output short circuit	
Indicator		Operating indicator (yellow LED), operating voltage (green LED)	
Ambient temperature		Operating: -25° to 85°C	
Ambient humidity		35 to 95% RH	
Influence of temperature		± 10% max. of Sn at 23° in temperature range of -25° to 70°C	
Dielectric strength		1.500 VAC, 50/60 Hz for 1 min. between current carry parts and case	
Electromagnetic compatibility EMC		EN 60947-5-2	
Vibration resistance		10 to 55 Hz, 1 mm amplitude according IEC 60068-2-6	
Shock resistance		Approx. 30 G for 11 ms according to IEC 60068-2-27	
Protection degree		IP67 IEC 60529, IP69K DIN 40050	
Connection	Connector	M12 plug, 4 pins	
Material	Case	PBT	
	Sensing face	PBT	
Approvals			