

PRODUCT: TYPE:

E2Q2 Proximity Sensors Partial Discontinuation Notice

DC Versions of E2Q2 Rectangular Inductive Proximity Sensors to be Discontinued; Replace with E2Q6 Series

Discontinuation date: February 2016

Note: Date is subject to change based on raw materials and components availability at the factory.

Affected Parts

Discontinued product	Recommended replacement		
E2Q2-N40MF3-H	No recommended replacement		
E2Q2-N40ME3-H	No recommended replacement		
E2Q2-N30MF3-U	No recommended replacement		
E2Q2-N30MF3-H	E2Q6-N30MF3-H		
E2Q2-N30MF3-G	No recommended replacement		
E2Q2-N30MF3-50	No recommended replacement		
E2Q2-N30ME3-U	No recommended replacement		
E2Q2-N30ME3-H	E2Q6-N30ME3-H		
E2Q2-N30ME3-G	No recommended replacement		
E2Q2-N30ME3-50	No recommended replacement		
E2Q2-N20F3-U	No recommended replacement		
E2Q2-N20F3-H	E2Q6-N20F3-H		
E2Q2-N20F3-G	No recommended replacement		
E2Q2-N20F3-50	No recommended replacement		
E2Q2-N20F1-H	No recommended replacement		
E2Q2-N20F1-G	No recommended replacement		
E2Q2-N20E3-U	No recommended replacement		
E2Q2-N20E3-H	E2Q6-N20E3-H		
E2Q2-N20E3-G	No recommended replacement		
E2Q2-N20E3-50	No recommended replacement		
E2Q2-N20E1-H	No recommended replacement		
E2Q2-N20E1-G	No recommended replacement		
E2Q2-N15F1-52	No recommended replacement		
E2Q2-N15F1-51	No recommended replacement		



Cautions on Applying Replacements

- The body color is black and the material is polyamide.
- The indicator position is changed.
- The supply voltage range expands to 10 to 30 VDC.
- The influence of temperature is ±15% max.
- Changing sensing direction is easier.

See the detail of differences on the following pages.

Detail of Differences

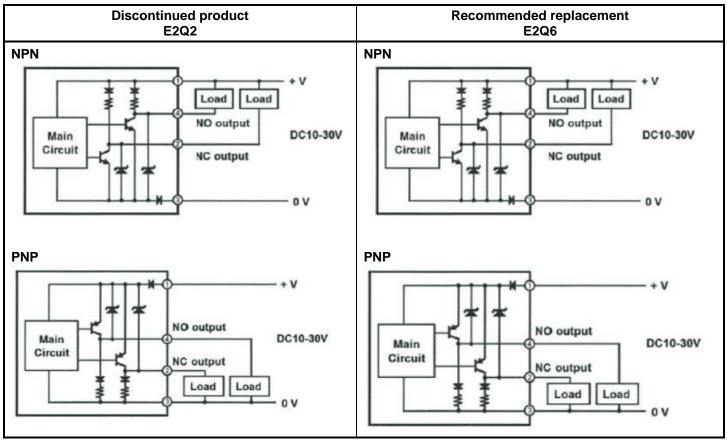
Reference Documentation

Description	Media	Publication number
E2Q2 Proximity Sensor Datasheet	PDF	CEDSAX4
E2Q6 Proximity Sensor Datasheet	PDF	D26I-E-01

Body Color

Discontinued product E2Q2	Recommended replacement E2Q6
Gray	Black

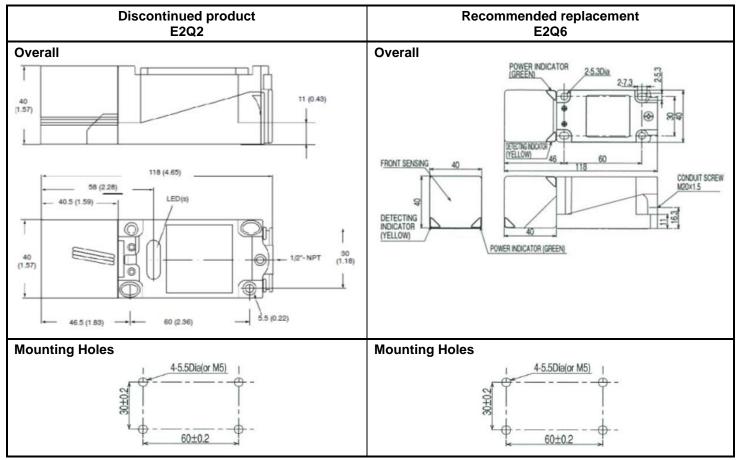
Wiring Diagrams



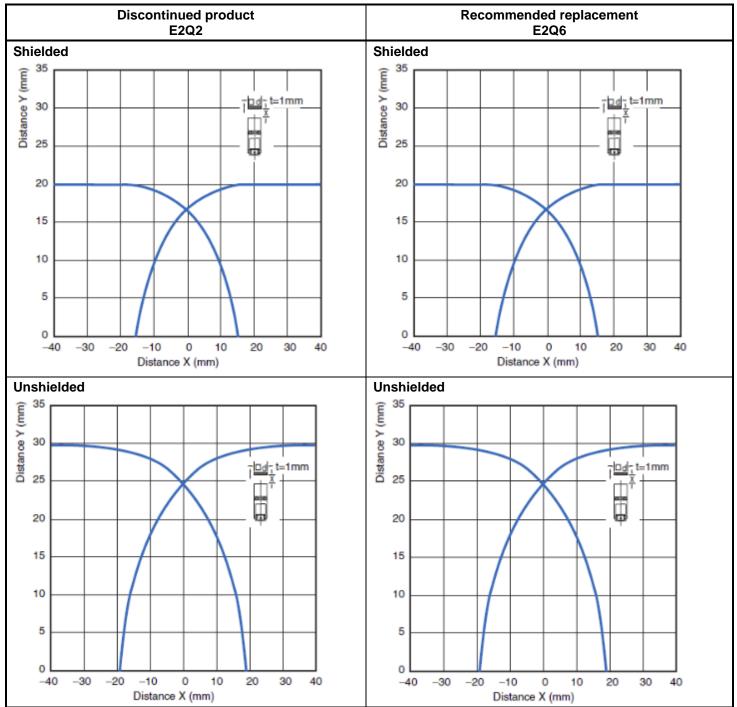
Characteristics

Discontinued product E2Q2			Recommended replacement E2Q6					
Shielding		Shielded	Unshielded	Model		E2Q6-N20 3-H	E2Q6-N30M[]3-H	
Item	Model	E2Q2-N20 3-H	E2Q2-N30M 3-H		distance	20mm±10%	30mm±10%	
Sensing di	istance	20 mm±10%	30 mm±10%		distance	0~16mm	0~24mm	
Set distance		0 to 16 mm	0 to 24 mm	and a state of the	and when put you a second second	15% max. of sensing	and the second sec	
Differential travel		15% max. of sensing distance						
Sensing object		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to Engineering Data on page 3.)		OCHSING ODJECT		Ferrous metals (The sensing distance decreases with non-ferrous metal.)		
Standard sensing ob- ject		Iron, $60 \times 60 \times 1$ mm	Iron, $90 \times 90 \times 1 \text{ mm}$	Standard		Iron, 60×60×1mm	Iron, 90×90×1mm	
	frequency	150 Hz	100 Hz	sensing object				
Power supply voltage (operating voltage range)		12 to 48 VDC (10 to 60 VDC), ripple (p-p): 10% max.		Respon	су	150Hz	100Hz	
	nsumption/	20 m 1 m 24		and the second se		10 to 30VDC, inclu	aing 10% ripple(p-p)	
Leakage c	urrent	20 mA max.		1		20mA max.		
	Switching	200 mA max.				200mA max.		
Control	capacity			Hesidua	al voltage	2VDC max.(at 200mA load current)		
output	Residual voltage	3 V max. with a 200 mA lo	ad current	Indicat	Indicators Detecting indica Power indicator			
Indicators	Detection indicator (yellow))	(with sensing		E type: NPN NO+NC F type: PNP NO+NC		
Operation mode (with sensing object ap- proaching)		E3 Models: NPN NO+NC F3 Models: PNP NO+NC Refer to the timing charts under <i>I/O Circuit Diagrams</i> on page 4 for details.		object approaching) Protection circuits		Output short circuit, Power supply reverse polarity protection, Output supply reverse polarity protection		
Protection	Protection circuits Reverse polarity protection, load short-circuit protection		n, load short-circuit	Insulation resistance		$50M\Omega$ min. (at 500VDC) between current-carrying parts and case		
Ambient temperature		Operating: -25 to 70°C (with no icing or condensation) Storage: -40 to 70°C (with no icing or condensation)		Dielectric		1,000VAC, 50/60Hz for 1 min. between current-carrying parts and case		
Ambient humidity		Operating: 35% to 85% (with no condensation) Storage: 35% to 95% (with no condensation)		Vibration		10 to 55 Hz, 1.5mm double amplitude each in X,Y and Z directions		
Tempera- ture	Shielded model	$\pm 10\%$ max. of sensing distance at 23 °C in the tempera	ture range of -25 to 70°C	Shock resistance		300 m/s ² for 3 times each in six directions		
influence	Unshielded model	$\pm 15\%$ max. of sensing distance at 23°C in the tempera	ture range of -25 to 70°C			IEC60529 IP67		
Voltage in	fluence	$\pm 2\%$ max. of sensing distance at within a range of $\pm 10\%$ of rated power supply voltage		protection				
Insulation resistance		$50\text{M}\Omega$ min. (at 500 VDC) between current-carrying parts and case		Connecting		Terminal block		
Dielectric	strength	EI Model and FI Model: 1,000 VAC, 50/60 Hz for 1 min. between current-carrying parts and case		method				
Dielectric strength		Y Model: 4,000 VAC, 50/60 Hz for 1 min. between curr	ent-carrying parts and case	Case		Polyamide (PA)		
Vibration resistance (destruction)		10 to 55 Hz, 1.5-mm double amplitude for 2 hours each	n in X, Y, and Z directions	Materials base		Polyamide (PA)		
Shock resistance (destruction)		500 m/s ² 10 times each in X, Y, and Z directions			Sensing face	Polyamide (PA)		
Degree of protection		IEC IP67 *		L				
Connection method		Terminal block						
Weight		Approx. 240 g						
Materials	Case	Polybutylene terephthalate (PBT)						
	Terminal block	Polybutylene terephthalate (PBT)						
	Sensing surface	Polybutylene terephthalate (PBT)						

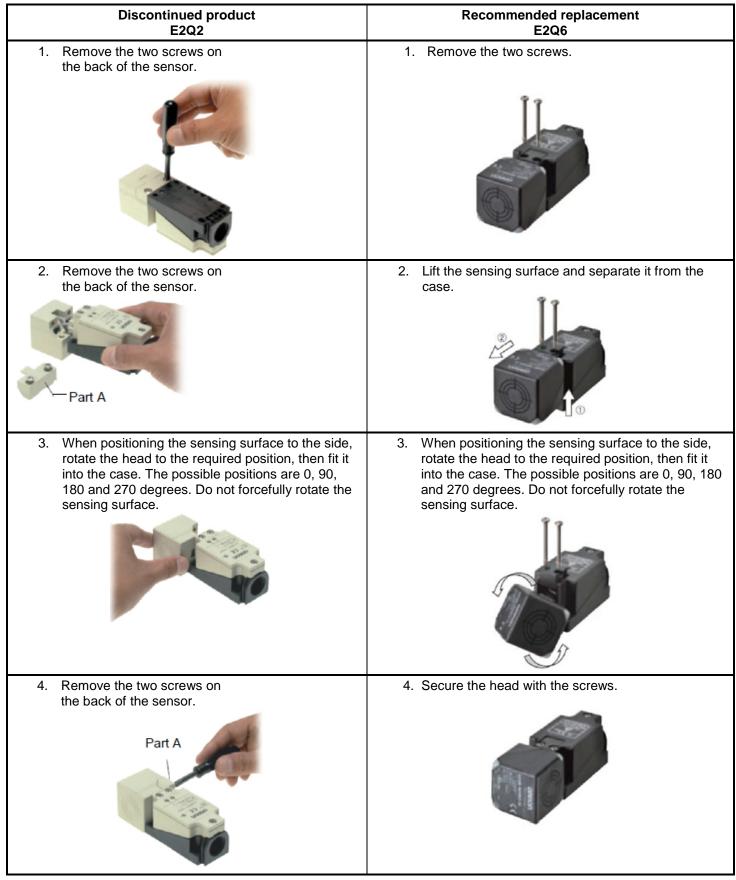
Dimensions



Operation Ratings



Operation Methods



Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.