

**NO:** PX-065      **PRODUCT:** E2F-X[]Y[]-53-US Prox Sensors  
**DATE:** August 2014      **TYPE:** Discontinuation Notice

## E2F-X[]Y[]-53-US Series AC Proximity Sensors with Load Short Circuit Protection will be Discontinued March 2015

**Effective Date:** March 31, 2015

### Cautions on Applying Replacement:

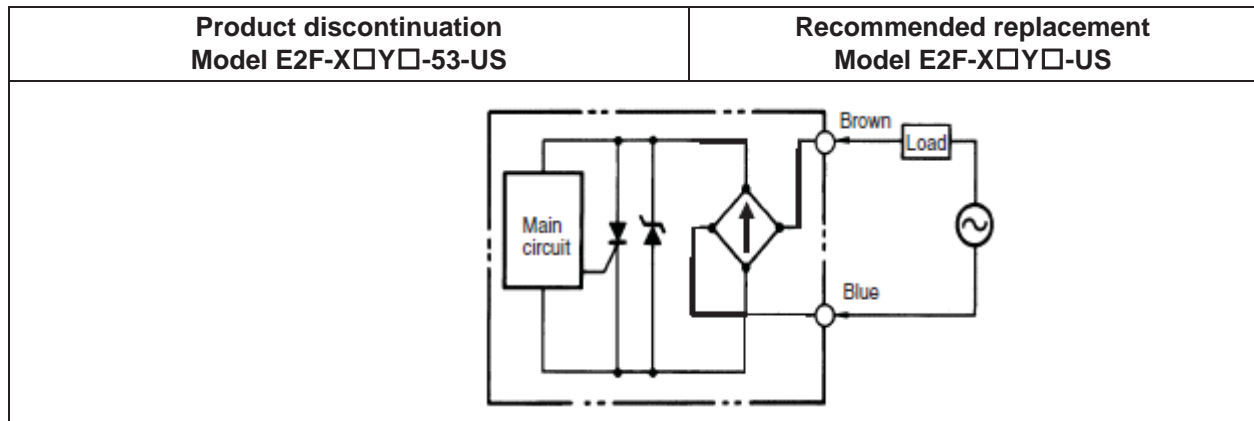
Discontinued models E2F-X[]Y[]-53-US have load short circuit protection. The replacement models do not have the feature.

### Affected Parts

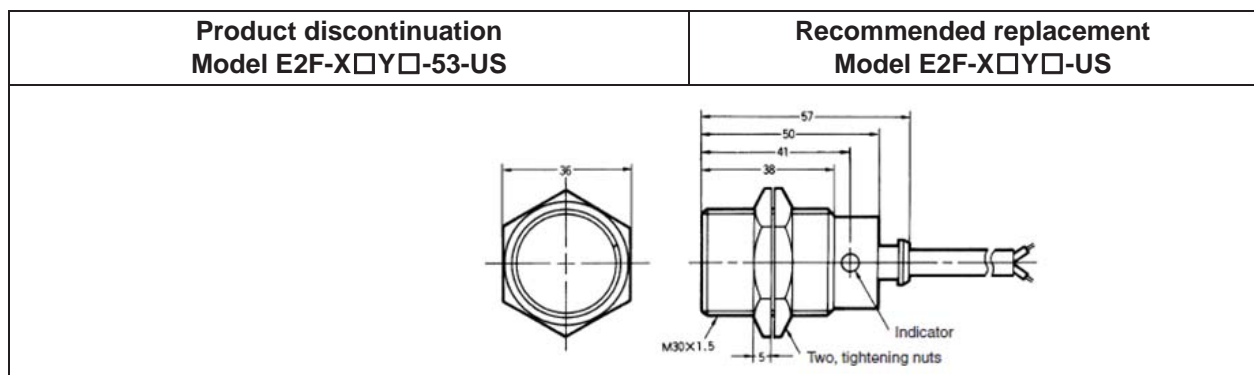
Product discontinuation	Recommended replacement
E2F-X10Y1-53-US	E2F-X10Y1-US
E2F-X10Y2-53-US	E2F-X10Y2-US
E2F-X5Y1-53-US	E2F-X5Y1-US
E2F-X5Y2-53-US	E2F-X5Y2-US

### Detail of Differences

#### Wiring Diagrams



### Dimensions



## Characteristics

Item	Product discontinuation Model E2F-X□Y□-53-US	Recommended replacement Model E2F-X□Y□-US
Sensing distance	X5: 5 mm±10% X10: 10 mm±10%	
Setting distance	X5: 0 to 4 mm X10: 0 to 8 mm	
Differential distance	10% max.	
Sensing object	Ferrous metal	
Standard sensing object	X5: Iron, 18 × 18 × 1 mm X10: Iron, 30 × 30 × 1 mm	
Response frequency	25 Hz	
Power supply (Operating voltage range)	Type -53: 100 to 120 VAC±10% 50/60Hz	Type -US: 24 to 240 VAC (20 to 264 VAC)
Leakage current	1.7 mA at 200 VAC	
Control output (Switching capacity)	5 to 300 mA	
Indicator lamp	Operation indicator (red LED)	
Operating status (with sensing object approaching)	Y1 models: NO Y2 models: NC	
Protective circuits	Type -53: Short circuit protection	Type -US: None
Ambient temperature	Operating/Storage: -25°C to 70°C (with no icing or condensation)	
Ambient humidity	Operating/Storage: 35% to 95% RH	
Temperature influence	A maximum fluctuation of ±10% max. of sensing distance at 23°C in temperature range of -25°C and 70°C	
Voltage influence	±1% max. of sensing distance within a range of ±10% of rated power supply voltage	
Insulation resistance	50 MΩ min.(at 500 VDC) between current carry parts and case	
Dielectric strength	4,000 VAC, 50/60 Hz for 1 min between current carry parts and case	
Vibration resistance	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X,Y, and Z directions	
Shock resistance	Destruction: 1,000 m/s <sup>2</sup> for 10 times each in X,Y, and Z directions	
Protective structure	IEC IP68	
Connection method	Pre-wired models (standard length: 2 m)	
Weight (Packed state)	X5: Approx.130 g X10: Approx.170 g	
Material	Case	Polyarylate
	Sensing surface	
	Clamping nut	Polyallylate resin
Accessories	Instruction manual	

Specifications 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.