PRODUCT NEWS

OMRON

NO: PH-220 **PRODUCT:** E2E M8, E2F M8
DATE: October 2021 **TYPE:** Discontinuation Notice

Discontinuation Notice of Standard Proximity sensor Model E2E M8 size AC type and Resin-case Proximity Sensor E2F M8 size AC type

<< REQUEST >>

There was modification in portion of Product Discontinuation notices of Product News No. OMSQ-ALD190797 of May 2020 issue. What we have changed is as follows; Final order entry date from the end of October 2021 to the end of March 2022 and Date of the Last Shipping from the end January 2022 to the end of June 2022 ; extended for 5th month. However, please note that depending on the model, it may end as soon as the parts are out of stock. Please abolish old edition, replace the latest No. APDE-202239G.

Product Discontinuation	Recommended Replacement
Name of products	Name of products
Standard Proximity sensor Model E2E M8 size AC type	**Standard Proximity sensor Model E2E M12 size AC type**
Resin-case Proximity Sensor E2F M8 size AC type	**Resin-case Proximity Sensor E2F M12 size AC type**

[Final order entry date]

The end of **March., 2022**

[Date of The Last Shipping]

The end of **June., 2022**

[Caution on recommended replacement]

The recommended replacement for E2E/E2F M8 series is E2E/E2F M12 series.
1) The dimensions and mounting dimensions of them are different. Please refer to the dimensions and mounting dimensions for details.
2) The characteristics and operation ratings of them are partially different. Please refer to the characteristics and operation ratings for details.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
E2E/E2F M12 series	**	--	**	--	*	*	**

** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

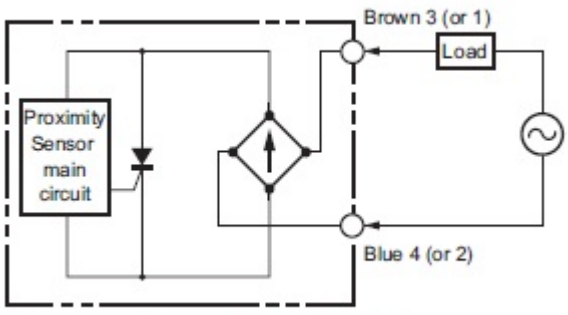
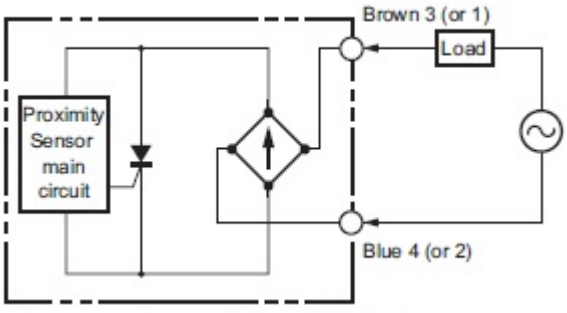
[Product Discontinuation and recommended replacement]

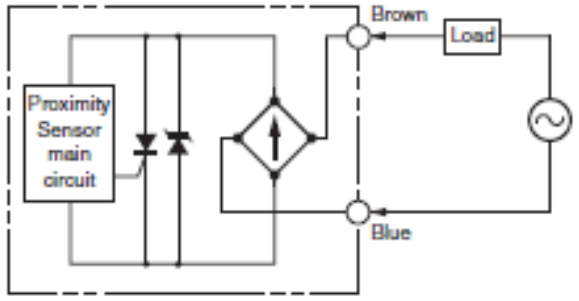
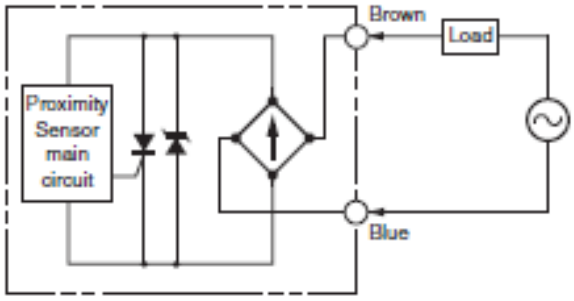
Product discontinuation	Recommended replacement
E2E-X2MY2-Z 5M OMS	E2E-X5MY2-Z 5M OMS
E2E-X2MY2-Z 2M OMS	E2E-X5MY2-Z 2M OMS
E2E-X2MY1-Z 5M OMS	E2E-X5MY1-Z 5M OMS
E2E-X2MY1-Z 2M OMS	E2E-X5MY1-Z 2M OMS
E2E-X1R5Y2-Z 5M OMS	E2E-X2Y2-Z 5M OMS
E2E-X1R5Y2-Z 2M OMS	E2E-X2Y2-Z 2M OMS
E2E-X1R5Y2-Z 10M OMS	E2E-X2Y2-Z 10M OMS
E2E-X1R5Y1-Z 5M OMS	E2E-X2Y1-Z 5M OMS
E2E-X1R5Y1-Z 2M OMS	E2E-X2Y1-Z 2M OMS
E2E-X1R5Y1-R-Z 5M OMS	E2E-X2Y1-R-Z 5M OMS
E2E-X1R5Y1-R-Z 2M OMS	E2E-X2Y1-R-Z 2M OMS
E2F-X1R5Y2 2M	E2F-X2Y2 2M
E2F-X1R5Y1 5M	E2F-X2Y1 5M
E2F-X1R5Y1 2M	E2F-X2Y1 2M
E2F-X1R5Y1 15M	E2F-X2Y1 15M
E2F-X1R5Y1 10M	E2F-X2Y1 10M
E2E-X2MY2 5M	E2E-X5MY2 5M
E2E-X2MY2 2M	E2E-X5MY2 2M
E2E-X2MY1-R 2M	E2E-X5MY1-R 2M
E2E-X2MY1 5M	E2E-X5MY1 5M
E2E-X2MY1 2M	E2E-X5MY1 2M
E2E-X1R5Y2 5M	E2E-X2Y2 5M
E2E-X1R5Y2 2M	E2E-X2Y2 2M
E2E-X1R5Y2 10M	E2E-X2Y2 10M
E2E-X1R5Y1-R 5M	E2E-X2Y1-R 5M
E2E-X1R5Y1-R 2M	E2E-X2Y1-R 2M
E2E-X1R5Y1 5M	E2E-X2Y1 5M
E2E-X1R5Y1 2M	E2E-X2Y1 2M
E2E-X1R5Y1 20M	No recommended replacement

[Body color]

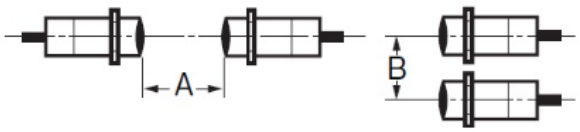
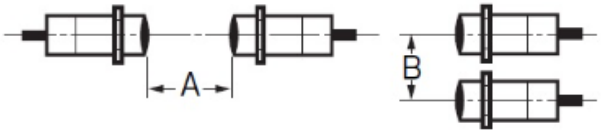
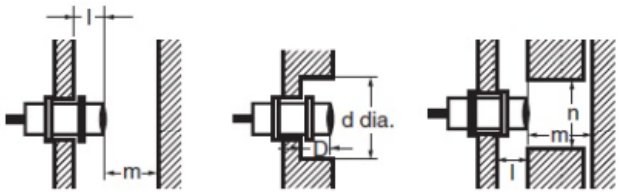
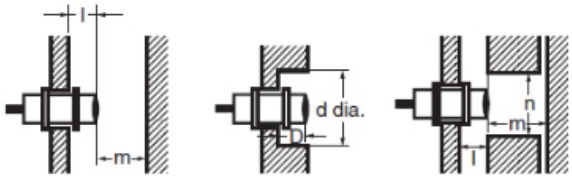
Product discontinuation Model E2E M8 size AC type	Recommendable replacement Model E2E M12 size AC type
Body: Cylinder type (with screw) Case: Stainless steel (SUS303) 	Body: Cylinder type (with screw) Case: Brass nickel plating 
Product discontinuation Model E2F M8 size AC type	**Recommendable replacement Model E2F M12 size AC type**
Body: Cylinder type (with screw; without name plate) Case: Polyarylate 	Body: Cylinder type (with screw) Case: Polyarylate 

[Wire connection]

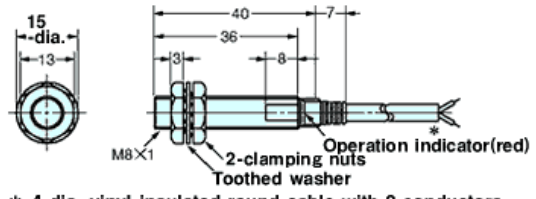
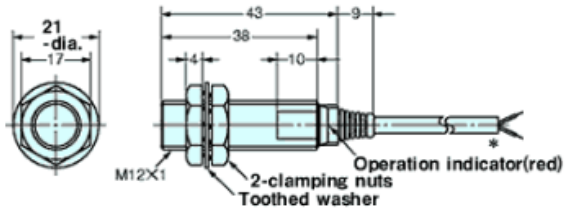
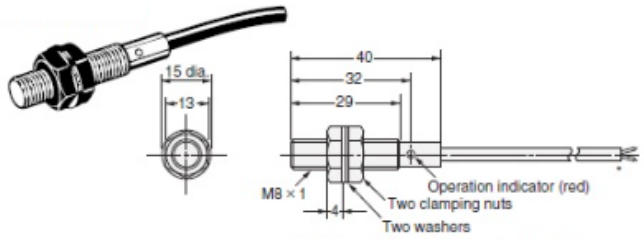
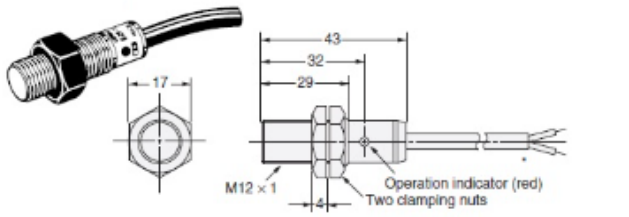
Product discontinuation Model E2E M8 size AC type	Recommendable replacement Model E2E M12 size AC type
Output Circuit Diagrams 	**Output Circuit Diagrams** 
Product discontinuation Model E2F M8 size AC type	**Recommendable replacement Model E2F M12 size AC type**

Output Circuit Diagrams	Output Circuit Diagrams
	

[Mounting dimensions]

Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
Mutual interference  A: 20 mm min., B: 15 mm min.	Mutual interference  A: 30 mm min., B: 20 mm min.
Effects of surouding metals  l: 0 mm min., dia. d: 8 mm min., D: 0 mm min., m: 4.5 mm min., n: 12 mm min.	Effects of surouding metals  l: 0 mm min., dia. d: 12 mm min., D: 0 mm min., m: 8 mm min., n: 18 mm min.

[Dimensions]

Product discontinuation Model E2E M8 size AC type	Recommendable replacement Model E2E M12 size AC type
 * 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm) Standard length: 2m The cable can be extended (separate metal conduit) up to 200 m.	 * 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm) Standard length: 2m The cable can be extended (separate metal conduit) up to 200 m.
Product discontinuation Model E2F M8 size AC type	**Recommendable replacement Model E2F M8 size AC type**
 * 3.5-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.14 mm², Insulator diameter: 1 mm), Standard length: 2 m The cable can be extended up to 200 m (separate metal conduit).	 * 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m The cable can be extended up to 200 m (separate metal conduit).

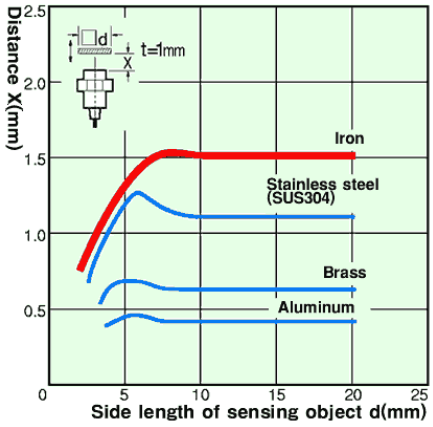
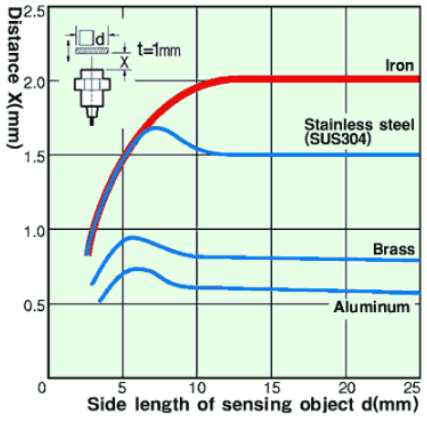
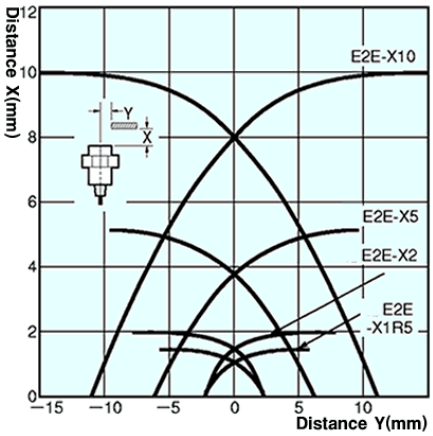
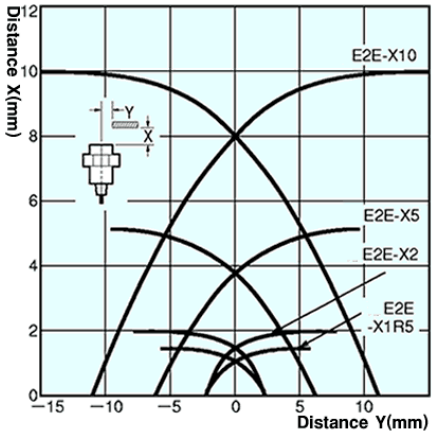
[Characteristics]

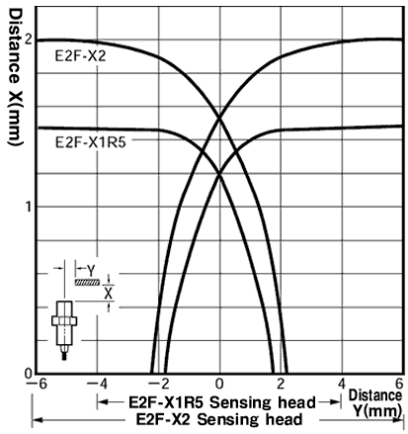
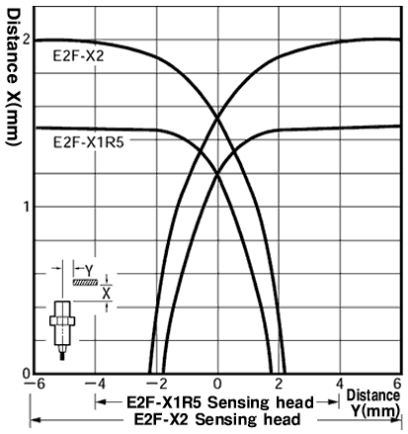
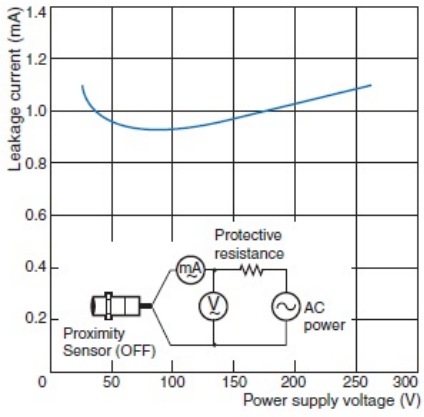
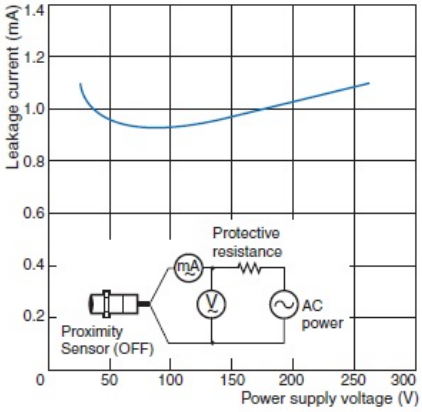
Item	Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
Sensing head size	M8	M12
Type	**Cylinder type (with screw)、 E2E/E2F-X1R5Y1/2:Shielded E2E-X2MY1/2:Unshielded**	**Cylinder type (with screw)、 E2E/E2F-X2Y1/2:Shielded E2E-X5MY1/2:Unshielded**
Sensing distance	**E2E/E2F-X1R5Y1/2:1.5 mm ±10% E2E-X2MY1/2:2 mm ±10%**	**E2E/E2F-X2Y1/2:2 mm ±10% E2E-X5MY1/2:5 mm ±10%**
Setting distance	**E2E/E2F-X1R5Y1/2:0 to 1.2 mm E2E-X2MY1/2: 0 to 1.6 mm**	**E2E/E2F-X2Y1/2:0 to 1.6 mm E2E-X5MY1/2: 0 to 4 mm**
Differential distance	**10% max. of sensing distance**	**10% max. of sensing distance**
Sensing object	**Ferrous metal (Sensitivity lowers with non-ferrous metals.)**	**Ferrous metal (Sensitivity lowers with non-ferrous metals.)**
Standard sensing object	**E2E/E2F-X1R5Y1/2: Iron 8 x 8 x 1 mm E2E-X2MY1/2: Iron 12 x 12 x 1 mm**	**E2E/E2F-X2Y1/2: Iron 12 x 12 x 1 mm E2E-X5MY1/2: Iron 15 x 15 x 1 mm**
Response frequency	**25 Hz**	**25 Hz**
Power source	**AC 2-wire models**	**AC 2-wire models**
Power supply voltage	**24 to 240 VAC**	**24 to 240 VAC**

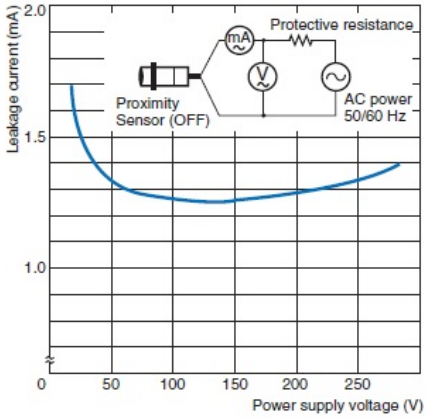
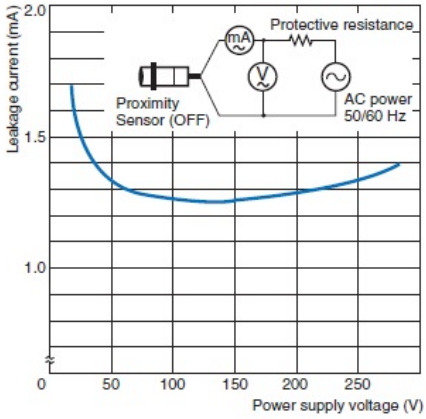
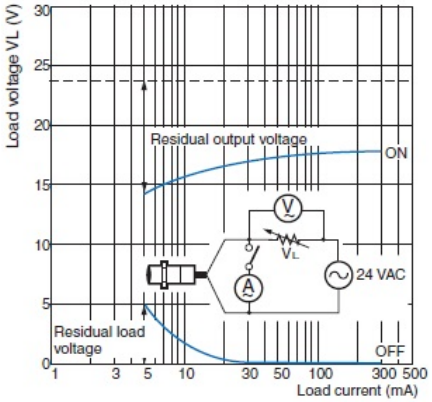
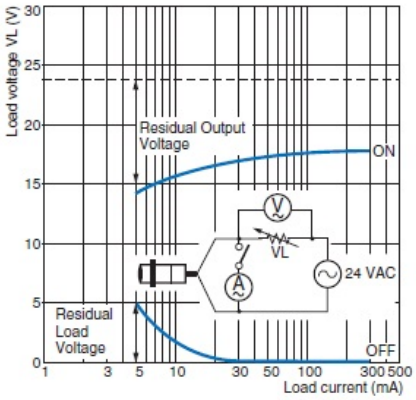
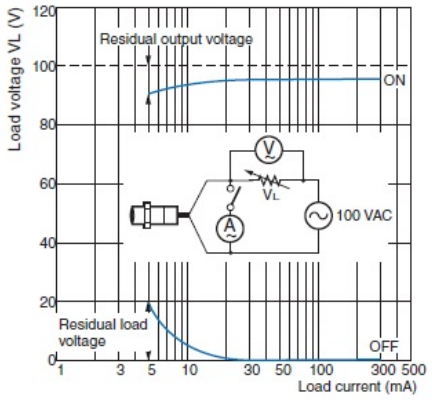
Item	Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
Operating voltage range	20 to 264 VAC	20 to 264 VAC
Leakage current	1.7 mA max.	1.7 mA max.
Control output (Switching capacity)	5 to 100 mA	5 to 200 mA
Indicator	Operation indicator (red)	Operation indicator (red)
Operation mode	Y1:NO;Y2:NC	Y1:NO;Y2:NC
Protective circuit	E2E:Surge suppressor;E2F:none	E2E:Surge suppressor;E2F:none
Ambient temperature	Operating: -25 to 70℃ Storage: -25 to 70℃	E2E: Operating: -40 to 85℃ Storage: -40 to 85℃ E2F: Operating: -25to 70℃ Storage: -25 to 70℃
Ambient humidity	Operating: 35 to 95% Storage: 35 to 95%	Operating: 35 to 95% Storage: 35 to 95%
Temperature influence	±10% max. of sensing distance at 23 ℃ in the temperature range of -25 to 70 ℃	E2E: ±10% max. of sensing distance at 23 ℃ in the temperature range of -25 to 70 ℃ ±15% max. of sensing distance at 23 ℃ in the temperature range of -40 to 85 ℃ E2F: ±10% max. of sensing distance at 23 ℃ in the temperature range of -25 to 70 ℃
Voltage influence	±1% max. of sensing distance at rated voltage in the rated voltage ±15% range	E2E: ±1% max. of sensing distance at rated voltage in the rated voltage ±15% range E2F: ±1% max. of sensing distance at rated voltage in the rated voltage ±10% range
Insulation resistance	Between charged parts and the case: 50 MΩ min. at 500 VDC	Between charged parts and the case: 50 MΩ min. at 500 VDC
Dielectric strength	Between charged parts and the case: 2,000 VAC 50/60 Hz for 1 min	Between charged parts and the case: 4,000 VAC 50/60 Hz for 1 min
Vibration resistance	Destruction: 10 to 55 Hz, 1.5 mm double amplitude each in X, Y, and Z directions for 2 h	Destruction: 10 to 55 Hz, 1.5 mm double amplitude each in X, Y, and Z directions for 2 h
Shock resistance	E2E: Destruction: 500 m/s**2 10 times each in X, Y, and Z directions E2F: Destruction: 1000 m/s**2 10 times each in X, Y, and Z directions	Destruction: 1000 m/s**2 10 times each in X, Y, and Z directions
Degree of protection	E2E: IEC: IP67 E2F: IEC: IP68 Company standard: Oil-proof	E2E: IEC: IP67 E2F: IEC: IP68 Company standard: Oil-proof
Connection method	Pre-wired models	Pre-wired models
Weight	E2E: Package: Approx. 60 g E2F: Package: Approx. 40 g	E2E: Package: Approx. 70 g E2F: Package: Approx. 50 g
Material	E2E:	E2E:

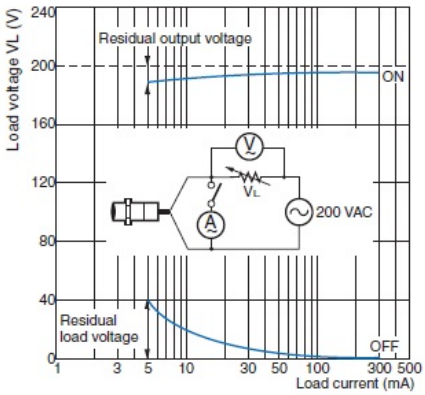
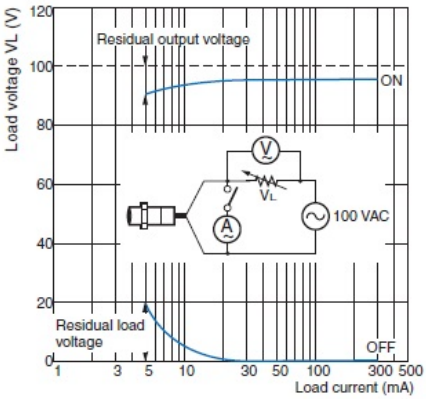
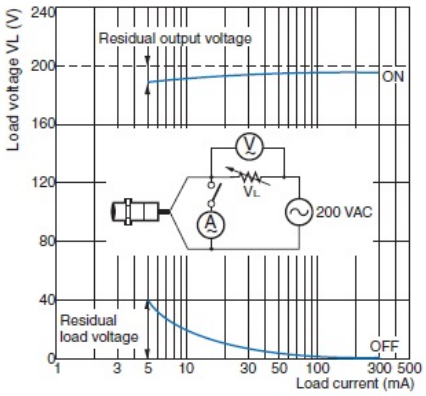
Item	Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
	Case: Stainless steel (SUS303) Sensing surface: Polybutylene terephthalate (PBT) Clamping nuts: Brass nickel plating Toothed washers: Iron zinc plating E2F: Case: Polyarylate Sensing surface: Polyarylate Clamping nuts: Polyacetal	Case: Brass nickel plating Sensing surface: Polybutylene terephthalate (PBT) Clamping nuts: Brass nickel plating Toothed washers: Iron zinc plating E2F: Case: Polyarylate Sensing surface: Polyarylate Clamping nuts: Polyacetal
Accessories	Instruction manual	Instruction manual

[Operation ratings]

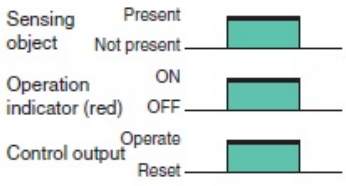
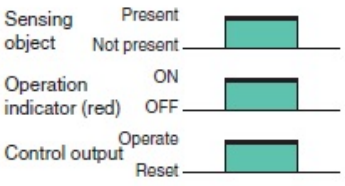
Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
Sensing distance vs. size and material of sensing object  	Sensing distance vs. size and material of sensing object 
Sensing range  	Sensing range 

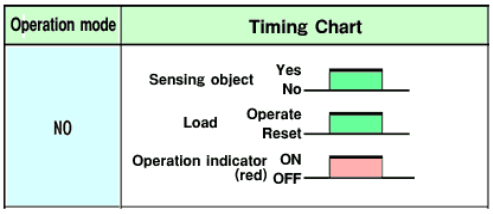
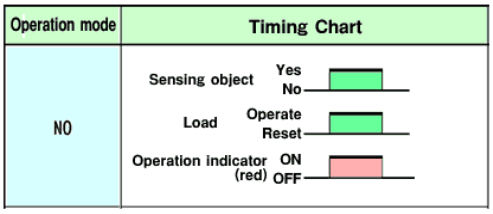
Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
	
Leakage current **E2E-X□Y□** 	Leakage current **E2E-X□Y□** 

Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
E2F-X□Y□  Residual voltage	**E2F-X□Y□**  Residual voltage
E2E-X□Y□ at 24 VAC  	**E2F-X□Y□ at 24 VAC** 
E2E-X□Y□ at 100 VAC  	

Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
E2E-X□Y□ at 200 VAC  	**E2E-X□Y□ at 100 VAC**  **E2E-X□Y□ at 200 VAC** 

[Operation methods]

Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
Timing chart E2E  E2F	Timing chart E2E  E2F

Product discontinuation Model E2E/E2F M8 size AC type	Recommendable replacement Model E2E/E2F M12 size AC type
	

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.