

Product Discontinuation Notices

March 1, 2011

Safety Sensors

No. 2011077E

Discontinuation Notice of Single-beam Safety Sensor. Type F3SS series



Product Discontinuation

Single-beam Safety Sensor

Type F3SS series

Accessory

Type F39-LLK

Recommended Replacement

Light Curtain

Type PA46 series

Accessory

No recommended replacement

Discontinuation date : The end of March, 2012

Caution on recommended replacement

About the change to PA46-1-000-Q2-NC1-PN

- 1) Dimensions, wire connection, mounting dimensions, characteristics, operation rating and operation methods are different.
- 2) Body color are a similarity.
- 3) It is supplied by not Omron because of the plan but OFE though recommended substitute is its company (OSTI) commodity.

Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
PA46-1-000-Q2-NC1-PN	*	--	--	--	--	--	--

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

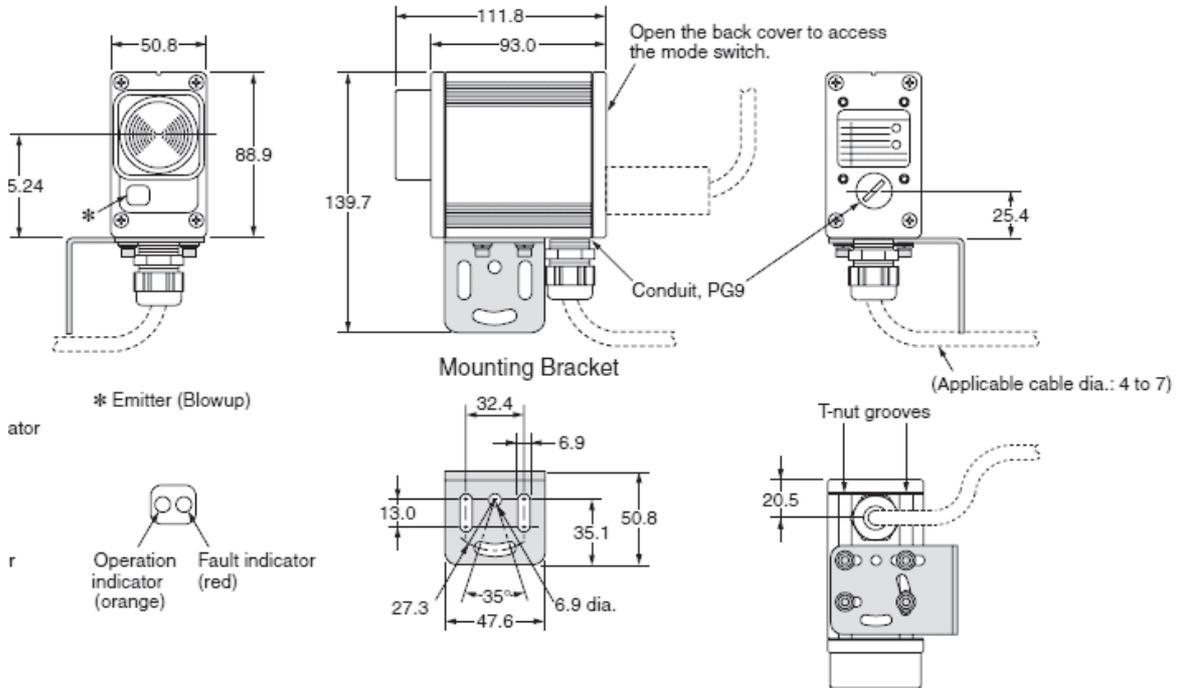
Product discontinuation	Recommended replacement
Type F3SS-AT60P	Type PA46-1-000-Q2-NC1-PN
Type F3SS-AT60P-D	Type PA46-1-000-Q2-NC1-PN-R
Type F3SS-AT60P-L	Type PA46-1-000-Q2-X
Type F39-LLK	No recommended replacement

Body color

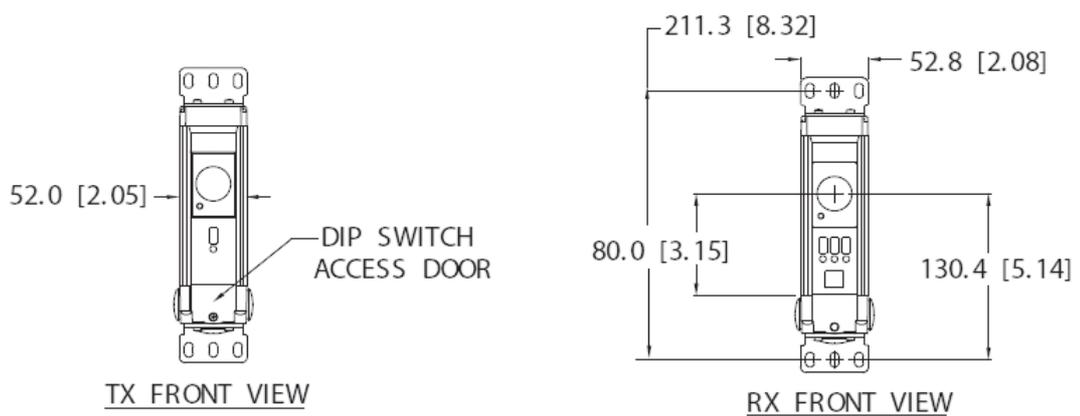
Product discontinuation Type F3SS-AT60P	Recommendable replacement Type PA46-1-000-Q2-NC1-PN
	

Dimensions

Product discontinuation Type F3SS-AT60P

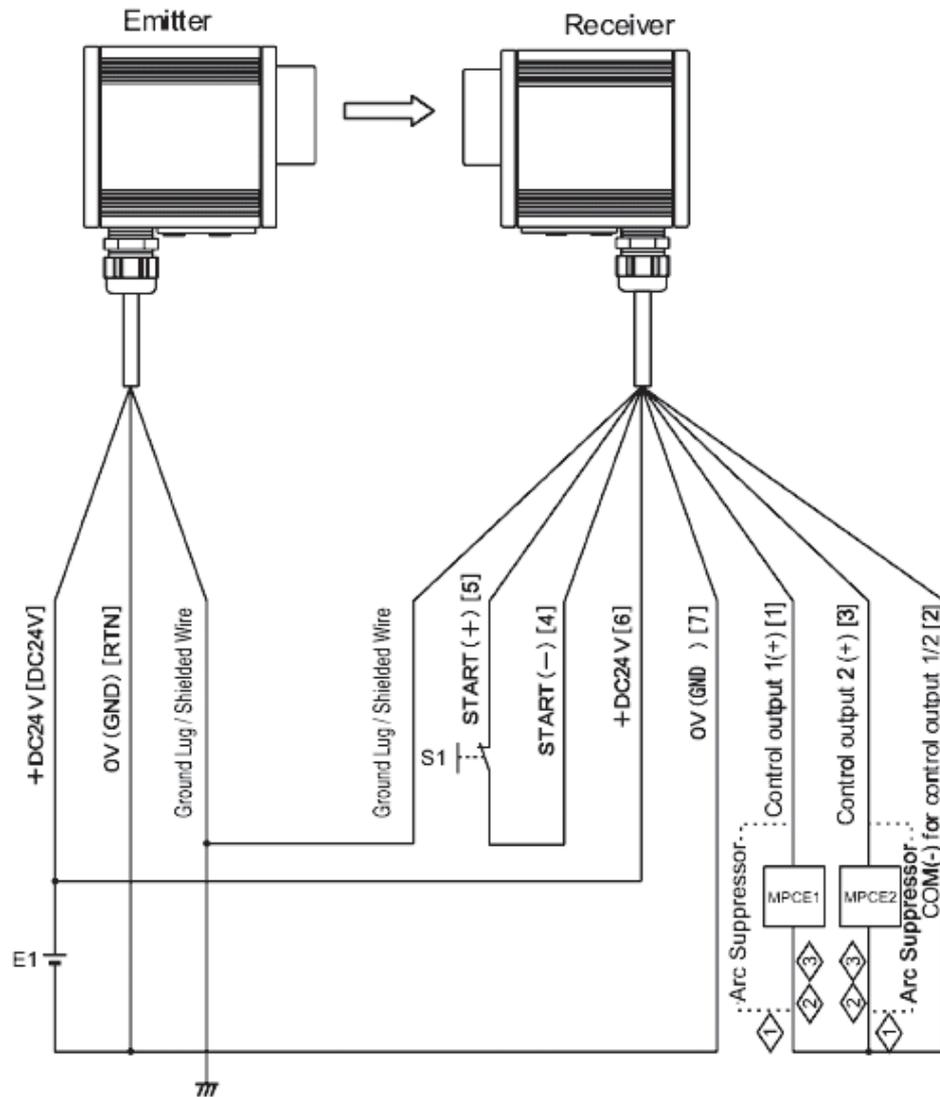


Recommendable replacement Type PA46-1-000-Q2-NC1-PN



Wire Connection

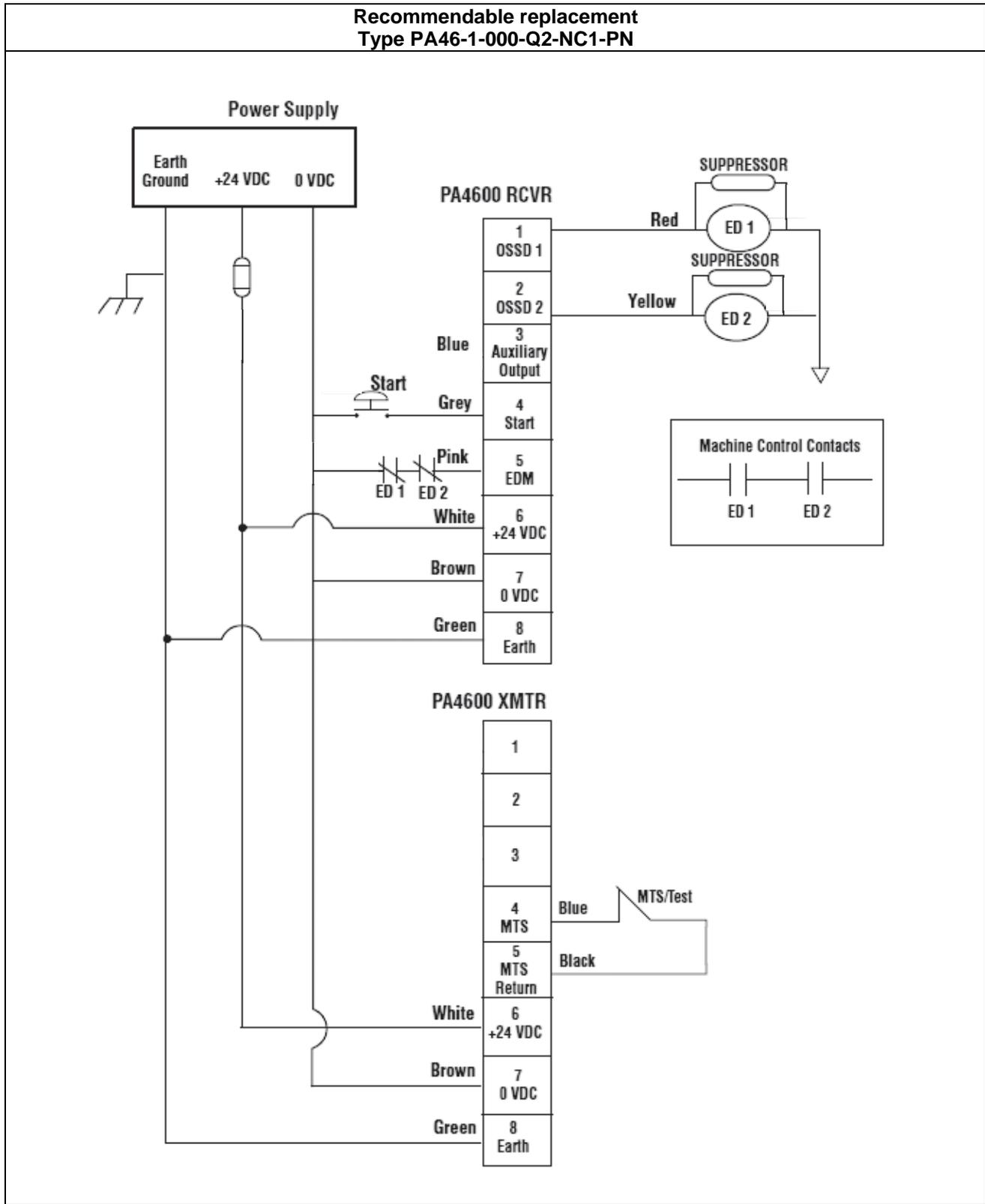
Product discontinuation Type F3SS-AT60P



Description in square parentheses indicates terminal name or terminal number.
 E1: 24VDC power supply (model S82K recommended)
 S1: Start switch (for releasing interlock) : NC contact
 MPCE1 and MPCE2: DC-driving high sensitivity contactor (model J7AN etc.)

Wire Connection

**Recommendable replacement
Type PA46-1-000-Q2-NC1-PN**



Dimensions

Item	Product discontinuation Type F3SS-AT60P	Recommendable replacement Type PA46-1-000-Q2-NC1-PN
Sensing diameter	0.3 to 60m	0.8 to 70m
Detection capability	Opaque objects,31 mm in diameter or greater	
Effective aperture angle (EAA)	±2.5° at 3m	±2.5° at 3m
Light source (emitted wavelength)	Infrared LED (880nm)	Infrared Light Emitting Diode,880nm
Power supply voltage (Vs)	24VDC±10% (ripple p-p:5% max)	24VDC±20%
Current consumption	Emitter:170mA max Receiver:800mA max	Emitter:100mA max Receiver:1.6 A max
Response time	35ms max	24ms max
Startup waiting time	4s or less	-
Control outputs	Two PNP transistor outputs, load current 250mA or less	Two PNP output
Output operation	Light-ON	Light-ON
Indicators	Emitter : orange/Power indicator, red/error mode indicator Receiver: orange/Light intensity level indicator, red/OFF-state indicator, green/ON-state indicator, yellow/interlock indicator	Emitter : Yellow/Active Receiver : Green/Machine run, Red/Machine stop, Yellow /Interlock/Alarm, individual beams and two 7-segment display
Mutual Interference Prevention function	Emitter Frequency Switch	Scanning frequency switch
Safety functions	Auto start mode, start interlock mode, and start/restart interlock mode can all be selected using a switch in the receiver	- Auto start mode - start interlock mode - start/restart interlock mode
Connection method	Connected to the terminal block on the internal board	Connector type
Protective circuits	Output load short and power supply reverse connection protection	Output load short
Ambient temperature	Operating/Storage: 0 to 55 °C	0 to 55 °C
Ambient Humidity	Operating/Storage: 35% to 95%	95% maximum
Degree of protection	IEC Standard IP65	IP67
Vibration resistance	Malfunction/destruction: 10 to 55Hz, amplitude 0.7mm, 20 sweeps each in X, Y and X directions	5-60 Hz maximum on all 3 axis
Shock resistance	Malfunction/destruction:100m/s ² ,1,000t imes each in X,Y, and Z directions	10 g of 0.016 seconds: 1,000 shocks for each axis on two axis
Material	Aluminum (case and cap)	Aluminum

Operation methods

Product discontinuation Type F3SS-AT60P	Recommendable replacement Type PA46-1-000-Q2-NC1-PN
Refer to wire connection and characteristics	

Operation methods

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Refer to wire connection	