

OMRON

Product Discontinuation Notices

April 1, 2009

Safety Sensors

No.2009130E

Discontinuation Notice of Safety Light Curtain. Type F3SL-A series



Caution on recommended replacement

About the change to Type MS4800A-30

1) Dimensions and mounting dimensions are different.

- 2) Body color and wire connection and characteristics, operation ratings are a similarity.
- 3) A part of the setting change is changed with programming and diagnostics module Type MS4800-PDM.

Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
Type MS480A-30	*		*		*	*	

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Accessory cord is only for F3SL. Production is ended according to the production end of F3SL.

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
Type F3SL-A0351P30	Type MS4800A-30-0360
Type F3SL-A0523P30	Type MS4800A-30-0520
Type F3SL-A0700P30	Type MS4800A-30-0720
Type F3SL-A0871P30	Type MS4800A-30-0880
Type F3SL-A1046P30	Type MS4800A-30-1040
Type F3SL-A1219P30	Type MS4800A-30-1200
Type F3SL-A1394P30	Type MS4800A-30-1400
Type F3SL-A1570P30	Type MS4800A-30-1560
Type F3SL-A1746P30	Type MS4800A-30-1760
Type F3SL-A1920P30	Type MS4800A-30-1920
Type F3SL-A2095P30	Type MS4800A-30-2080
Type F39-JL10A-L	Type MS4800-CBLTX-10M
Type F39-JL15A-L	Type MS4800-CBLTX-15M
Type F39-JL30A-L	Type MS4800-CBLTX-30M
Type F39-JL10A-D	Type MS4800-CBLRX-10M
Type F39-JL15A-D	Type MS4800-CBLRX-15M
Type F39-JL30A-D	Type MS4800-CBLRX-30M

Body color

Product discontinuation	Recommended replacement
Type F3SL-A	Type MS4800A-30

Dimensions



Dimensions



* The value of dimension F doesn't change even if the direction of mounting brackets are set up oppositely.

360 520	364.5	500.5				
520		500.5	461.8	387.4	451.4	424.6
	523.4	659.4	620.7	546.3	610.3	583.5
720	724.0	860.0	821.3	746.9	810.9	784.1
880	882.8	1018.8	980.1	905.7	969.7	942.9
1040	1042.9	1178.9	1140.2	1065.8	1129.8	1103.0
1200	1203.8	1339.8	1301.1	1226.7	1290.7	1263.9
1400	1401.7	1537.7	1499.0	1424.6	1488.6	1461.8
1560	1563.3	1699.3	1660.6	1586.2	1650.2	1623.4
1760	1760.5	1896.5	1857.8	1783.4	1847.4	1820.6
1920	1922.8	2058.8	2020.1	1945.7	2009.7	1982.9
2080	2079.6	2215.6	2176.9	2102.5	2166.5	2139.7

Wire Connection



Wire Connection



Characteristics

	Discontinuation F3SL-A	Replacement MS4800A-30				
Operating range	0.3 to 20 m	0.3 to 20 m 0.3 to 8 m (setting by type MS4800-PDM)				
Beam gap	22 mm	20 mm				
Number of	16 to 96	14 to 106				
beams						
Protective height	351 to 2095 mm	280 to 2120 mm				
Detection capability	Diameter 30 mm opaque objects	Diameter 30 mm opaque objects				
Effective aperture angle (EAA)	Within ± 2.5 ° for the emitter and receiver at a detection distance of at least 3 m according to IEC61496-2	Within ±2.5 ° for the emitter and receiver at a detection distance of at least 3 m according to IEC61496-2				
Light source	Infrared LED 850 nm wavelength	Infrared LED 880nm wavelength				
Power supply voltage	DC 24 V±20 %	DC 24 V±20 %				
Start waiting time	3 s max.	3.5 s max.				
Current	Emitter 285 mA max.	Emitter 285 mA max.				
consumption	Receiver 1.4 A max.	Receiver 450 mA max.				
	PNP transistor outputs × 2	PNP transistors × 2				
Safety outputs	Load current 500 mA max.	Load current 625 mA max.				
	ON at light on PNP transistor × 1	ON at light on PNP transistor × 1				
Auxiliany	Load current 100 mA max.	Load current 100 mA max.				
Auxiliary output	Output mode : ON at light on	Output mode : ON at light on or alarm				
ouipui		(setting by type MS4800-PDM)				
	Output short-circuit protection,	Output short-circuit protection,				
Protection	power supply reverse polarity protection	power supply reverse polarity protection,				
circuit		Interference light avoidance algorithm				
		with type MS800-PDM				
		/ Restart interlock				
	External device monitoring					
	Fixed blanking					
	Floating blanking					
Safety-related	Setting by select switch Setting by type MS4800-PDM Monitored blanking					
functions	Reduced resolution blanking					
	- Setting by type MS4800-PDM					
	Muting					
Response time	- Setting by type MS4800-RM6 Refer to time table of ON to OFF					
Series						
connection	_	(Only MSF4800A or MSF4800A series)				
Ambient	During operation and During storage	During operation -10 to +55 °C				
temperature	0 to +55 °C	During storage -25 to +70 °C				
Ambient	During operation and During storage	During operation and During storage				
humidity	35 to 95 %RH	95 %RH max.				
Vibration	Malfunction : 10 to 55Hz,	Malfunction : 10 to 55Hz,				
resistance	Multiple amplitude of 0.7 mm,	Multiple amplitude of 0.35 mm,				
	20 sweeps each in X,Y,Z directions	20 sweeps each in X,Y,Z directions				
Shock	Malfunction : 100 m/s ² ,	Malfunction : 100 m/s ² ,				
resistance	1,000 times each in X,Y,Z directions	1,000 times each in X,Y,Z directions				
Degree of	IEC60529 IP65	IEC60529 IP65				
protection						

Characteristics

Time table of ON to OFF

	Disconti F3SI		Replacement MS4800A-30		
	F3SL-A0351P30	20ms	MS4800A-30-0360	23ms	
	F3SL-A0523P30	20ms	MS4800A-30-0520	23ms	
	F3SL-A0700P30	20ms	MS4800A-30-0720	23ms	
	F3SL-A0871P30	20ms	MS4800A-30-0880	23ms	
Response time	F3SL-A1046P30	25ms	MS4800A-30-1040	23ms	
	F3SL-A1219P30	25ms	MS4800A-30-1200	23ms	
	F3SL-A1394P30	25ms	MS4800A-30-1400	23ms	
	F3SL-A1570P30	30ms	MS4800A-30-1560	32ms	
	F3SL-A1746P30	30ms	MS4800A-30-1760	32ms	
	F3SL-A1920P30	35ms	MS4800A-30-1920	32ms	
	F3SL-A2095P30	35ms	MS4800A-30-2080	32ms	

Operation ratings	
Product discontinuation Type F3SL-A	Recommended replacement Type MS4800A-30
Refer to wire connection and characteristics	Refer to wire connection and characteristics

Operation methods

