



Product Discontinuation Notices

July 4, 2011

Presence Detection Sensors

No. 2011195E

Discontinuation Notice of Safety Laser Scanner Type OS3101 series

Product Discontinuation

Safety laser scanner

Type OS3101 series Accessories (Cables & Mounting brackets) Type F39-RS2 series



Safety laser scanner Accessories (Cables & Mounting brackets)

Recommended Replacement

Type OS32C series

Discontinuation date : The end of March, 2012

Caution on recommended replacement

- Dimensions and mounting dimensions are different.
- Depend on current OS3101 application, OS32C would not match for wire connection, characteristics and operation ratings.
- Easy convert cable from OS3101 to OS32C is released, but it is not catalog item.

Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Operation ratings	Operation methods
Type OS32C series	*				 	

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

* Accessories (cables and mounting brackets so on) are only for OS3101. Production is ended according to the production end of OS3101.

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
Type OS3101-2-PN-S	Type OS32C-BP or Type OS32C-SP1
Type OS3101-CBL-10PT	Type OS32C-CBL-10M
Type OS3101-CBL-20PT	Type OS32C-CBL-20M
Type OS3101-CBL-30PT	Type OS32C-CBL-30M
Type F39-RS2-C2	Type OS32C-ECBL-02M
Type F39-RS2-C4	Type OS32C-ECBL-05M
Type OS3101-BKT	Type OS32C-BKT1
Type OS3101-BPT	Type OS32C-BKT3
Type OS3101-MT	Type OS32C-MT
Type OS3101-WIN-KT	Type OS32C-WIN-KT
Type OS3101-DST-KT	No need for Type OS32C

Body color

Product discontinuation	Recommendable replacement
Type OS3101 series	Type OS32C series









Wire Connection



Wire Connection



Characteristics

	Product discontinuation Type OS3101 series	Recommendable replacement Type OS32C series
Sensor Type	Type3 Safety laser scanner	
Safety category	Category 3 safety application	Category 3, Performance Level d (ISO13849-1:2008)
Detection capability	Configurable; Non-transparent with a diameter of 62mm (1.8% reflectivity or greater)	Configurable; Non-transparent with a diameter of 30, 40, 50, 70mm (1.8% reflectivity or greater)
Monitoring Zone	Monitoring Zone Set Count (Safety Zone + Warning Zones) : 2 sets max.	Monitoring Zone Set Count (Safety Zone + 2 Warning Zones) : 70 sets max.
Operating Range	Safety Zone: 4.0m Warning Zone: 15.0m	Safety Zone: 3.0m (min. obj. resolution of 50mm or 70mm) 2.5m (min. obj. resolution of 40mm) 1.75m (min. obj. resolution of 30mm) Warning Zone: 10.0m
Maximum Measurement Error	135mm	100mm
Detection Angle	180°	270°
Response Time	Response time from ON> OFF: From 80ms (2 scans) to 680ms (up to 17 scans)	Response time from ON> OFF: From 80ms (2 scans) to 680ms (up to 17 scans)
	Response time from OFF> Response time from ON> OFF plus 400msec	Response time from OFF> Response time from ON> OFF plus 100msec to 60sec (Configurable)
Line voltage	DC24V ±20%	DC24V +25%/-30%
Power Consumption	20W typical (without output load)	Normal operation: 5W max., 4W typical (without output load) Standby mode: 3.75W (without output load)
Emission Source (Wavelength)	Infrared Laser Diode (905nm)	Infrared Laser Diode (905nm)
Laser Protection Class	CLASS 1: IEC/EN60825-1 (2001) CLASS 1: JIS6802 (2005) CLASS 1: CFR21 1040.10, 1040.11	CLASS 1: IEC/EN60825-1 (2007) CLASS 1: JIS6802 (2005) CLASS 1: CFR21 1040.10, 1040.11
Safety Output (OSSD)	PNP transistor x 2, load current of 625mA max.,	PNP transistor x 2, load current of 250mA max.,
Auxiliary Output (Non-Safety)	PNP transistor x 1, load current of 100mA max.	NPN/PNP transistor x 1, load current of 100mA max.
Warning Output (Non-Safety)	PNP transistor x 1, load current of 100mA max.	NPN/PNP transistor x 1, load current of 100mA max.
Operation Mode	Auto Start, Start Interlock, Start/Restart Interlock	Auto Start, Start Interlock, Start/Restart Interlock
Input (External Device Monitoring)	ON: 0V short (input current of 50mA), OFF: Open	ON: 0V short (input current of 50mA), OFF: Open
Input (Start)	ON: 0V short (input current of 20mA), OFF: Open	ON: 0V short (input current of 20mA), OFF: Open
Input (Zone Select)	ON: connect Zone Select COM (input current of 20mA), OFF: Open	ON: 24V short (input current of 5mA), OFF: Open

Characteristics

	Product discontinuation Type OS3101 series	Recommendable replacement Type OS32C series
Connection Type	Power Cable: 14-pin metal-connector	Power Cable:
Connection Type	Communication Cable:	18-pin mini-connector (pigtail)
	RS-232C, 9-pin D-sub connector	Communication Cable:
	& straight cable	M12, 4-pin connector
Connection with PC	Communication : RS-232C	Communication : Ethernet
Connection with t C	Baud rate :	OS Supported :
	9600,19200,38400,115200bps	Windows2000,
	OS Supported :	Windows XP Professional,
	Windows2000,	Windows XP Home Edition,
	Windows XP Professional,	Windows Vista, Windows 7
	Windows XP Home Edition	
Indicators	ON indicator : Green,	RUN indicator : Green,
	OFF indicator : Red,	STOP indicator : Red,
	Interlock Indicator : Yellow,	Interlock Indicator : Yellow,
	Warning/Auxiliary Output Indicator :	Warning/Auxiliary Output Indicator :
	Orange,	Orange,
	Status/Diagnostic Display:	Status/Diagnostic Display:
	2 x 7-segment LEDs,	2 x 7-segment LEDs,
	Individual Sector Indicators:	Individual Sector Indicators:
	Red LED x 16	Red LED x 8
Protective Circuit	Protection against output load short	Protection against output load short
	and reverse power connection	and reverse power connection
Ambient	Operation: 0 to +50 deg. C,	Operation: -10 to +50 deg. C,
Temperature	Storage: -25 to 70 deg. C	Storage: -25 to +70 deg. C
Ambient Humidity	Operation & Storage:	Operation & Storage:
	95%RH max., non-condensing	95%RH max., non-condensing
Ambient Operation	Incandescent lamp:	Incandescent lamp:
Illumination	Illumination on receiving surface	Illumination on receiving surface
	1500lx max. (an angle of laser	1500lx max. (an angle of laser
	scanning plane and disturbance light	scanning plane and disturbance light
	must be +/-5 degrees or more)	must be +/-5 degrees or more)
Enclosure Rating	IP65 (IEC60529)	IP65 (IEC60529)
Dielectric withstand	AC350V 50/60Hz 1min	AC350V 50/60Hz 1min
voltage	(00) (D0)	
Insulation	100k-ohm or higher (500VDC)	20Mega-ohm or higher (500VDC)
resistance	00 - 1-2 4000 1/2	$00 = 12^2 + 000 + 1 = 10^2 +$
Impact Resistance	98m/s ² 1000 times for each of X, Y,	$98m/s^2$ 1000 times for each of X, Y,
	and Z directions (IEC60068-2-29)	and Z directions (IEC60068-2-29)
Vibration	10 to 55Hz double-amplitude of	10 to 55Hz double-amplitude of
	0.7mm, 20 sweepings for X, Y, and Z	0.7mm, 20 sweepings for X, Y, and Z
	directions (IEC60068-2-6)	directions (IEC60068-2-6)



Convert cable