

P/N: RMC-LC

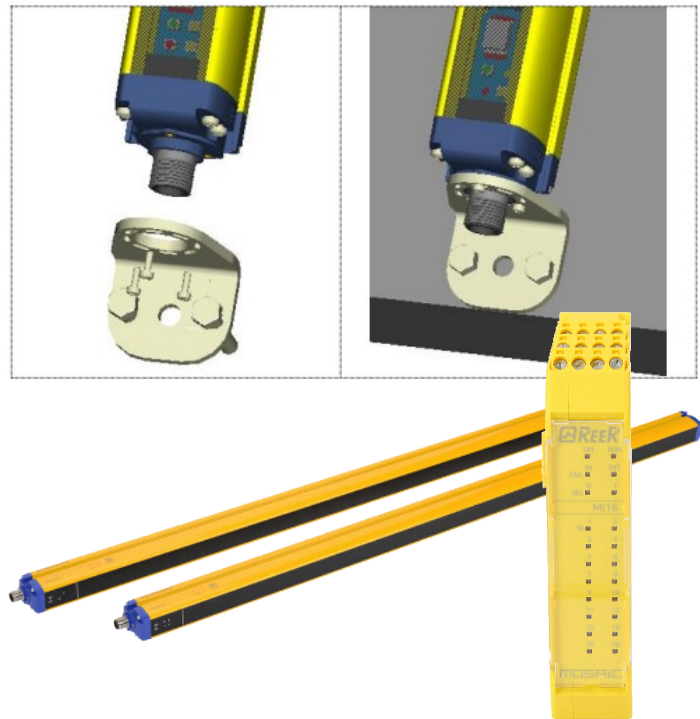
REV: 012924

Overview

This Light Curtain kit adds Personnel Safety to the Access Point of a Horizontal Carousel. The Transmitter is typically mounted to the floor and the Receiver overhead to create an invisible screen of protection between the carousel and the operator. A single interface cable between the control panel and the access point is provided allowing for easy installation and maintenance.

What's Included

- Light Curtain Sender/Receiver pair w/brackets
- Cables for Light Curtains (TX & RX)
- Safety controller expansion for Control Panel
- M12 Connector on Control Panel
- Terminal blocks for power in Control Panel
- Cable between Control Panel and Cable connection box
- Connection tap 'T' adapter



Specifications

- Dual-channel Lt Curtain w/OSSD outputs
- Hand-safe (30mm) beam resolution
- Independent protection for each carousel
- 750mm Protection Width
- 10meter range
- Safety Category Type 4 IEC 61496-1

Theory of Operation:

Typical applications provide fencing around the entire carousel group and integrate the Lt Curtain at the access points in front of the carriers. If the Lt Curtain is interrupted then the Safety Circuit to that particular machine is tripped. If the machine was running during the interruption then a Safety stop is performed and a restart procedure must be followed to return to normal operation. If the machine was idle and a normal transaction (picking or storing) occurs, the safety circuit still trips but it is cleared upon the next start command from the host computer.



Model	SG4-30 Base Series (hand protection)	
Electrical Data		
Supply Voltage	24VDC \pm 20%	
Current Consumption (Sender)	2.5 W maximum	
Current Consumption (Receiver)	3.5 W maximum (without load)	
OSSD Outputs	2 PNP	
Short Circuit Protection	1.4 A maximum	
Output Current	0.5 amps maximum on each output	
Output Voltage – ON status:	Vdd-1V minimum	
Output Voltage – OFF status:	0.2 V maximum	
Leakage Current	< 1mA	
Capacitive Load	2.2 μ F @ 24VDC (if a longer cable must be used, verify that the capacitive load specifications are respected)	
Protected Height	300 - 1800 mm (11.81 - 70.87 in)	
Safety Category	Type 4, IEC 61496-1	
Auxiliary Functions	Reset / Test	
	Selectable Manual / Automatic Reset	
	Selectable EDM	
Electrical Protection	Class I / Class III	
Electrical Connections	M12 4-pole for sender	
	M12 8-pole for receiver	
Cable Length (for supply power)	50m (164ft) maximum (if a longer cable must be used, verify that the capacitive load specifications are respected)	
Optical Data		
Light Emission	Infrared LED (950nm)	
Resolution	30mm	
Operating Distance	0.2 - 19 m	
Aperature Angle (EAA)	\pm 2.5° maximum	
Ambient Light Rejection	IEC 61496-2	
Mechanical and Environmental Data		
Operating Temperature	0 to 55°C (32 to 131°F)	
Storage Temperature	-25 to 70°C (-13 to 158°F)	
Temperature Class	T6	
Humidity	15 - 95% (non-condensing)	
Mechanical Protection	IP65 (EN 60529)	
Vibrations	Width 0.35 mm	
	Frequency 10 - 55 Hz 20 sweep per axis	
	1 octave / min (EN 60068-2-6)	
Housing Material	Painted aluminum (yellow RAL 1003) front screen	
Protective Shield Material	PMMA (Polymethylmethacrylate [acrylic])	
Cap Material	PC MAKROLON	
Weight	1.3 Kg / m	
Agency Approvals	UL E226479, CE, TUV, RoHS	

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Toll free: (877) 293-8469
info@RobeyControls.com
www.RobeyControls.com