Guardmaster® Micro 400 Safety Light Curtains

Compact Safety Light Curtains in an IP69K Enclosure

Features

- Compact Type 4, SIL 3, PLe safety light curtains in robust IP69K polycarbonate enclosures
- Stainless steel mounting brackets
- Integrated 500 mm (19.8 in.) 8 conductor cable with M12 QD connectors
- Expansion safety relay modules (MSR45E) easily connect to MSR4X controller
- A global safeguarding solution that meets all applicable directives and is third-party tested and approved by UL and TÜV

Benefits

- A cost-effective solution for demanding high-temperature/ high-pressure washdown operating environments
- Design optimized for ease of installation in tight applications – 29 mm (1.14 in.) IP69K enclosure diameter
- Minimal inactive sensing area of optic modules

The Allen-Bradley® Guardmaster® Micro 400 safety light curtain from Rockwell Automation® offers an expanded product solution with an IP69K environmental rating. This product offering is targeted to applications requiring high-pressure/high-temperature washdown in industries including pharmaceutical and petrochemical.

The Micro 400 IP69K light curtains are offered with a 5 m (16.4 ft) operating range in protective heights from 150 mm (5.91 in.) to 1200 mm (47.24 in.), all in 14 mm (0.55 in.) resolution (finger detection). They are ordered from the factory sealed in polycarbonate tubes and include stainless steel mounting brackets.

Compact, Rugged and Flexible

Meeting the tough environmental requirements for high-pressure/ high-temperature washdown and dust ingress, these Micro 400 IP69K safety light curtains deliver the same flexibility of the standard Micro 400 when solving a variety of machine guarding applications. The 29 mm (1.14 in.) diameter of these enclosures allow for mounting in small areas or in applications where available space for mounting safety light curtains is limited.

The Micro 400 in the IP69K enclosures are used in conjunction with the Allen-Bradley Guardmaster MSR41 ON/OFF or MSR42 multifunction controllers. To maintain their IP20 rating, the controllers must be mounted in a suitable enclosure. The Micro 400 in the IP69K enclosures feature the same 8-pin M12 connectors at the end of 500 mm (19.8 in.) integrated cables and use the same patchcords as the standard Micro 400 to connect to either the MSR41 or MSR42 controller.

Rockwell Automation offers patchcords in lengths of 1 m to 8 m (3.28 to 26.25 ft) with an 8-pin male M12 QD connector and RJ45 connector which easily plugs into the MSR4X controller. Suitable conduit is required for routing the patchcords to maintain the IP69K system rating.
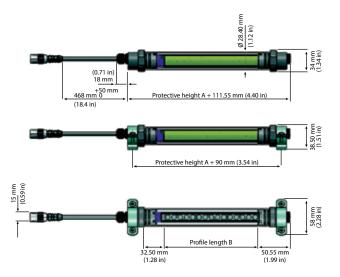
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General Ordering Information

Catalog Number (Includes Mounting Kit)	Product Description	Protection Zone Height A [mm (in.)]	System Length (no cable) [mm (inch)]
445L-P4C0150KD	Micro 400 IP69K Pair, 14 mm resolution	150 (5.9)	280 (11.0)
445L-P4C0300KD	Micro 400 IP69K Pair, 14 mm resolution	300 (11.8)	430 (16.9)
445L-P4C0600KD	Micro 400 IP69K Pair, 14 mm resolution	600 (23.6)	730 (28.7)
445L-P4C0900KD	Micro 400 IP69K Pair, 14 mm resolution	900 (35.4)	1030 (40.5)
445L-P4C1200KD	Micro 400 IP69K Pair, 14 mm resolution	1200 (47.2)	1330 (52.3)

Required Controllers	
440R-P221AGS	MSR41, Micro 400 controller, ON-OFF functionality
440R-P226AGS-NNR	MSR42, Micro 400 controller, multi-function
445L-AMUTBOX1	Muting Controller Box (MSR42)

Connection Cables	
445L-AC8RJx	Connection patchcords M12 to RJ45 Replace the x with 1,2,3,5 or 8 m (3.3, 6.6, 9.8, 16.4 or 26.2 ft)
445L-AC8PCx	Extension patchcords M12 to M12 Replace the x with 1,3 or 5 m (3.3, 9.8 or 16.4 ft)

Accessories	
440R-P4NANS	MSR45E, safety relay module
440R-ACABL1	Ribbon cable to connect 1 MSR45E to MSR41 or MSR42 controller
440R-ACABL2	Ribbon cable to connect 2 MSR45E to MSR41 or MSR42 controller
440R-ACABL3	Ribbon cable to connect 3 MSR45E to MSR41 or MSR42 controller
440R-AF6150	Optical interface (programming cable for MSR42 controller)
440R-AF6160	Micro 400 IP69K mount bracket kit (2 kits supplied with each pair)

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