

Resource Modules Overview

For full product information, visit www.sti.com. Use the SpeedSPEC Code for quick access to the specific web page.

Overview to the RM Series

STI RM Series resource modules provide the user of STI solid-state output safety light curtains a convenient and reliable method for enhancing and extending the capabilities of these light curtains.



Converts Solid-State Outputs to Force-Guided Relay Outputs

RM-1

This unit accepts the solid-state outputs from a single safety light curtain and provides one pair of N.O. force-guided safety relay outputs and one pair of N.C. auxiliary relay outputs. The RM-1 operates on 24 VDC which is supplied from the light curtain's safety outputs. A single connection between the STI safety light curtain and the RM-1 provides monitoring of the RM-1's output contacts.

RM-2

The RM-2 includes all the features of the RM-1 has, but also serves as a central point for terminating all signals to and from a solid-state safety device including MPCE monitoring and 24 VDC.

RM-2AC

The RM-2AC module operates on 100-240 VAC voltage, it supplies DC voltage to the safety light curtain. It provides one N.O. and one N.O./N.C. force-guided safety contacts. In addition it serves as a centralized point for easy interfacing, offering removable terminal blocks and a DIN-rail mount enclosure.

RM-2AC-IP

The RM-2AC-IP module operates on 100-240 VAC voltage; it supplies DC voltage to the light curtain. It provides one N.O. and one N.O./N.C. force-guided safety contacts. In addition, it serves as a centralized point for easy interfacing, offering removable terminal blocks and an IP65 metal enclosure. A custom version is also available for the MS4800S-SB1. This "RM-2AC-IP-SB1" is equipped with key switches for quick fixed blank programming.

RM-X

The RM-X converts the solid-state safety outputs of a STI device to relay outputs. It provides one N.O. and one N.O./N.C. safety relay output.

Connects up to Four Independent Safety Devices

RM-4

Up to four STI solid-state output safety devices in any combination can be connected to the RM-4. It provides two PNP safety outputs and one user-selectable NPN or PNP non-safety, auxiliary output. Additionally, connections are provided for the auxiliary output of each safety device. The RM-4 facilitates installation as all standard safety device functions are wired through its removable terminal blocks. All wiring of the safety device transmitters and receivers, as well as the 24 VDC power supply and MPCE contact monitoring are connected to the RM-4. Status indicator lights as well as a two-digit, seven-segment LED diagnostic display make system monitoring and troubleshooting extremely easy. See the following page for safety device compatibility.

Mute Module

RM-3

The RM-3 mute module is a microprocessor-controlled "Type 4" safety device. The purpose of the RM-3 is to furnish a temporary, automatic suspension of the safety function(s) provided by a safety light curtain. The RM-3 is a control accessory that provides this safety muting feature for one or two safety light curtains and is housed in a DIN box.

RM-6

The RM-6 mute module is for use with the MSF4800A and MSF4800S only. It provides for the wiring output of two to four muting sensors, housed in a 22.5 mm DIN enclosure.



For more information about these Resource Modules, see pages D-65-D-76

Compatibility

The RM Series is compatible with the following products:

D



OS32C Safety Laser Scanner

The OS32C is a very compact safety laser scanner. It features small size (104.5 mm profile), lightweight (1.3 kg) and low power consumption (5 W). It has 70 flexible zone configurations, simplified wiring and integrated management via Ethernet.



For information on the OS32C, see page B-3

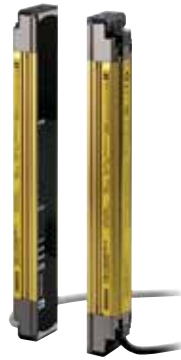


Perimeter Access Guarding Device PA4600

The PA4600 is a long-range, multiple-beam safeguarding control system. It differs from a conventional safety light curtain in that it provides a much longer operating range and a wider beam spacing. It is an excellent choice for safeguarding the perimeter of a hazardous area. It is suited to detect the torso of personnel entering into a hazardous area rather than detection of hands and fingers.



For information on the PA4600, see page C-3



F3SJ-A

The F3SJ-A Light Curtain is a compact "two box" light curtain with available minimum object resolutions of 14, 20, 25, 30 and 55 mm (0.55, 0.79, 1.01, 1.18 or 2.17 in.), operating range up to 7 m (23 ft.) or 9 m (29.5 ft.), and protective heights from 245 to 2495 mm (9.6 to 98 in.) depending on the protective height.



For information on the F3SJ, see page D-37



MiniSafe® MS4800

The MiniSafe MS4800 Light Curtain is a "two box" light curtain with available minimum object resolutions of 14, 20, 30 and 40 mm (0.55, 0.79, 1.18 and 1.57 in.), operating range up to 20 m (65 ft.) and protective heights from 280 to 2120 mm (11 to 83 in.). It provides one pair of PNP solid-state safety outputs and one non-safety auxiliary output.



For information on the MS4800, see page D-46

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