

# SAFETY INTERFACES



# AD SR1

## MAIN FEATURES

The AD SR1 safety interface is the dedicated interface system between the **Admiral AD**, **Admiral AX BK** and **Vision V** safety light curtains, equipped with solid state self-controlled safety outputs, and the control circuits of the machine.

AD SR1 also makes it possible to have auxiliary safety functions such as **Start/Restart interlock** and **EDM** (control of the final switching devices).



Safety level: **Type 4**.

Complying with:

- 98/37/EEC "Machine Directive"
- 89/336/EEC "Electromagnetic Compatibility Directive"
- 73/23/EEC "Low Voltage Directive"
- EN 61496-1 and IEC 61496-1-2 "Electrosensitive protection devices"
- EN 954-1 "Elements of safety-related control systems"
- UL (C + US) mark for USA and Canada



## TECHNICAL FEATURES

| Model  | AD SR1   |
|--|--|
| Safety                                       | Type 4   |
| Two-channel inputs for safety light curtains | 1  |
| Safety relay outputs                         | 2 NO - 2 A 250 Vac                                       |
| Safety system status indicator output        | PNP – 100 mA at 24 Vdc                                   |
| Response time ms                             | ≤ 20   |
| Restart                                      | manual or automatic restart selectable on terminal block |
| External Device Monitoring                   | external relay control feedback input, selectable        |
| Signalling                                   | LED indication of input/output status and diagnosis      |
| Power supply Vdc                             | 24 ± 20%   |
| Electrical connections                       | on terminal block  |
| Operating temperature °C                     | 0 ÷ 55   |
| Protection rating                            | IP 20 for housing<br>IP 2X for terminal block            |
| Fastening                                    | rail fastening according to EN 50022-35 standard         |
| Dimensions (h x w x d) mm                    | 99 x 22,5 x 114  |

## ORDERING INFORMATION (for ordering codes see page 133)

### Each AD SR1 safety interface includes:

- Multi-language instruction manual complete with CE declaration of conformity

## AD SRM

## MAIN FEATURES

The AD SRM safety interface with built-in **muting** function can be combined with the Admiral, Vision, and Janus safety light curtains of any resolution and protected height, as well as with the Pharo safety laser scanner.

AD SRM operates with **2 muting sensors** with simultaneity logic and is equipped with selectable Muting Timeout, **Override** function (with timeout), Muting Enable input, system status signalling output, and all the characteristics necessary for realising muting protection in compliance with the **most updated regulatory requirements**.

AD SRM also makes it possible to have **auxiliary safety functions** such as Start/Restart interlock and EDM (control of the final switching devices).

Safety level: **Type 4**.



Complying with:

- 98/37/EEC "Machine Directive".
- 89/336/EEC "Electromagnetic Compatibility Directive".
- 73/23/EEC "Low Voltage Directive".
- EN 61496-1 and IEC 61496-1-2 "Electrosensitive protection devices".
- EN 954-1 "Elements of safety-related control systems".
- UL (C + US) mark for USA and Canada.



## TECHNICAL FEATURES

| Model  | AD SRM   |
|--|--|
| Safety                                       | Type 4   |
| Two-channel inputs for safety light curtains | 1  |
| Safety relay outputs                         | 2 NO - 2 A 250 Vac   |
| Safety system status indicator output        | PNP – 100 mA at 24 Vdc   |
| Response time ms                             | ≤ 20   |
| Restart                                      | manual or automatic restart selectable on terminal block   |
| External Device Monitoring                   | external relay control feedback input, selectable  |
| Muting Sensors Inputs                        | 2 inputs for external muting sensors with relay or PNP output 24Vdc (dark-on logic)                  |
| Muting Enable input                          | Active High - 24 Vdc   |
| Muting lamp output                           | 24 Vdc - 0.5-5 W   |
| Muting timeout                               | 30 sec. or infinite, selectable  |
| Override                                     | 2 operating modes selectable :<br>- manual action with hold to run<br>- automatic with pulse command |
| Override timeout min                         | 15   |
| Signalling                                   | LED indications of input/output status, muting sensor inputs, diagnosis                              |
| Power supply Vdc                             | 24 ± 20%   |
| Electrical connections                       | On terminal block  |
| Operating temperature °C                     | 0 ÷ 55   |
| Protection rating                            | IP 20 for housing - IP 2X for terminal block   |
| fastening                                    | rail fastening according to EN 50022-35 standard   |
| Dimensions (h x w x d) mm                    | 99 x 35 x 114  |

## ORDERING INFORMATION (for ordering codes see page 133)

**Each AD SRM safety interface includes:**

- Multi-language instruction manual complete with CE declaration of conformity