

## AC-ABF70



### Connection and confirmation unit

The AC-ABF70 connection and confirmation unit is intended for resetting the start/restart interlock and for overriding an MLD or MLC optical protective device with muting. The AC-ABF70 has two M12 connection cables, one is connected directly to the optical protective device's machine interface, the other connects into the switch cabinet via the CB-M12-xxxx-8GF connection cables (see MLD accessories). The reset button is illuminated as long as the optical protective device's OSSDs (MLD or MLC 320/520) are switched off. In the MLC 530, the muting state is signaled in operating mode 4 or 6. The length of each cable is 5 m.

AC-ABF70 can be directly mounted to a hard guard using a supplied clamping plate without needing to open the device.



#### ATTENTION

This connection and confirmation unit must be attached so that it cannot be actuated from outside the danger zone.

### Features

- Robust plastic housing
- Commit and override via button
- UL certified contact block
- Connection to MLD or MLC
- Simple attachment to hard guards using the supplied clamping plate
- 2x M12 connector, 8-pin
- UV resistant, IP67 + IP69k

### Mounting

Fasten the device onto the hard guard using the two bore holes in the housing and the supplied clamping plate made of stainless steel, whereby the guard is placed between the device and the clamping plate. **Connect the cable with 8-pin socket to the MLD or MLC's machine interface (connector).**

### Order guide

| Part no. | Article  | Description                      |
|----------|----------|----------------------------------|
| 426296   | AC-ABF70 | Connection and confirmation unit |

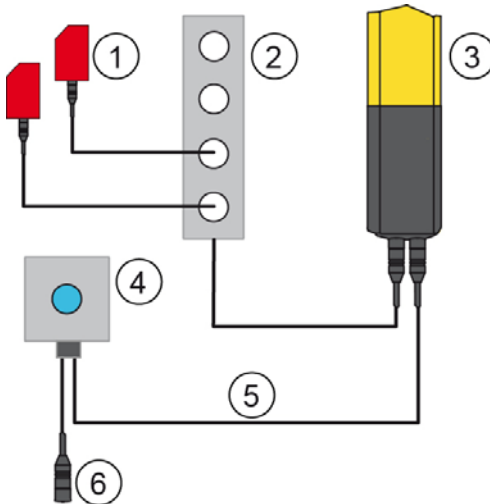
### Accessories

| Part no. | Article            | Description                            |
|----------|--------------------|--|
| 50135128 | KD S-M12-8A-P1-050 | M12 connection cable, 8-pin/open, 5 m  |
| 50135129 | KD S-M12-8A-P1-100 | M12 connection cable, 8-pin/open, 10 m |
| 50135130 | KD S-M12-8A-P1-150 | M12 connection cable, 8-pin/open, 15 m |
| 50135131 | KD S-M12-8A-P1-250 | M12 connection cable, 8-pin/open, 25 m |
| 50135132 | KD S-M12-8A-P1-500 | M12 connection cable, 8-pin/open, 50 m |

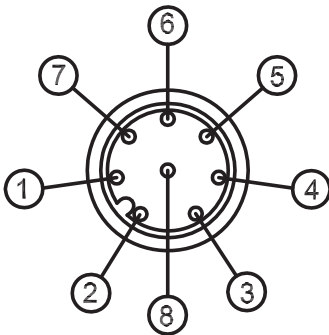
### Technical data

| Basic data                     |   |
|--------------------------------|---|
| Suitable for                   | MLD 300, MLD 500 multiple light beam safety devices, MLC 500, MLC 300 safety light curtains |
| Mechanical data                |   |
| Housing                        | Plastic, glass fiber reinforced (PPS), self-extinguishing                                   |
| Clamping plate                 | Stainless steel   |
| Net weight                     | 250 g   |
| Connection cables              | 1x 5 m, PUR, M12, 8-pin<br>1x 0.2 m, PUR, M12, 8-pin  |
| Electrical equipment           |   |
| Supply voltage                 | 24 V DC $\pm 20\%$  |
| Switching current via button   | 1 mA ... 1 A  |
| Environmental data             |   |
| Ambient temperature, operation | -25 ... +70 °C  |
| Ambient temperature, storage   | -25 ... +70 °C  |
| Certifications                 |   |
| Degree of protection           | IP 67, IP 69K   |
| VDE protection class           | III   |

# AC-ABF70



Circuit diagram example



Pin assignment for M12 plug (6)

## Electrical connection

### Circuit diagram example

|   |   |
|---|---|
| 1 | Muting sensors (MS 1, MS 2)   |
| 2 | AC-SCMx   |
| 3 | MLD x20, MLD x3x, MLC x20   |
| 4 | AC-ABF70  |
| 5 | 5 m connection cable, M12 socket, 8-pin to MLD or MLC machine interface<br>Pin assignment must be observed! |
| 6 | 0.2 m connection cable, M12 plug, 8-pin to switch cabinet   |

### Pin assignment

| Pin | MLD x20 | MLD x3x     | MLC x20 |
|-----|---------|-------------|---------|
| 1   | RES     | RES         | IO 1    |
| 2   | +24 V   | +24 V / 0 V | VIN 1   |
| 3   | EDM     | EDM         | IN 3    |
| 4   | MODE    | MS 2        | IN 4    |
| 5   | OSSD 2  | OSSD 2      | OSSD 1  |
| 6   | OSSD 1  | OSSD 1      | OSSD 2  |
| 7   | 0 V     | 0V / +24V   | VIN 2   |
| 8   | n.c./FE | M-EN/TO     | IN 8    |

## Dimensioned drawing

