

## AC-ABF70INV



### Connection and confirmation unit

The AC-ABF70INV 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-ABF70INV 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 on. In the MLC 530, the muting state is signaled in operating mode 4 or 6. The length of each cable is 5m. AC-ABF70INV 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 connection, 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
426297	AC-ABF70INV	Connection and confirmation unit

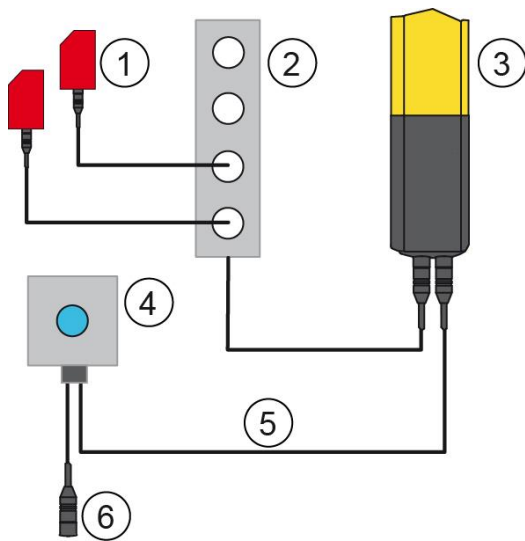
### Accessories

Part no.	Article	Description
678060	CB-M12-5000E-8GF	M12 connection cable, 8-pin/open, 5 m
678061	CB-M12-10000E-8GF	M12 connection cable, 8-pin/open, 10 m
678062	CB-M12-15000E-8GF	M12 connection cable, 8-pin/open, 15 m
678063	CB-M12-25000E-8GF	M12 connection cable, 8-pin/open, 25 m
678064	CB-M12-50000E-8GF	M12 connection cable, 8-pin/open, 50 m

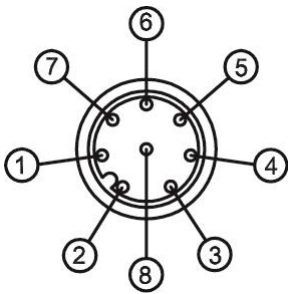
### Technical data

Basic data	
Suitable for	Multiple light beam safety devices MLD 500, MLD 300, Safety light curtains MLC 500, MLC 300
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 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 safety class	III

## AC-ABF70INV



Circuit diagram example



Pin assignment for M12 plug (6)

### Electrical connection

#### Circuit diagram example

1	Muting sensors (MS 1, MS 2)
2	AC-SCM5 (-BT)
3	MLD 320, MLD 330, MLD 520, MLD 530, MLD 535 MLC 320, MLC 520, MLC 530
4	AC-ABF70INV
5	5 m connection cable, M12 socket, 8-pin to MLD or MLC machine interface Pin assignment must be observed!
6	0.2 m connection cable, M12 plug, 8-pin to switch cabinet

#### Pin assignment

Pin	MLD 320, MLD 520, MLC 320, MLC 520	MLD 330, MLD 530, MLC 535	MLC 530 (operating mode 4 or 6)
1	RES	RES	IO 1
2	+24 V	+24V / 0V	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

