

## Technical data sheet

### Sensor connection module

Part no.: 520143  
AC-SCM7U

#### Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Accessories



For illustration purposes only



## Technical data

### Basic data

Suitable for	MLD 335, MLD 535 multiple light beam safety devices
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### Electrical data

Insulation resistance, min.	10,000,000,000 Ω
Current load, max.	1 A

### Performance data

Supply voltage U <sub>B</sub>	24 V, DC, -20 ... 20 %
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### Connection

Number of connections	7 Piece(s)
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#### Connection 1

Function	Connection to device Local interface
Type of connection	Cable with connector
Cable length	500 mm
Sheathing material	PUR
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

#### Connection 2

Function	Local input, muting sensor 1
Type of connection	Connector
Designation on device	MS1
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

#### Connection 3

Function	Local input, muting sensor 2
Type of connection	Connector
Designation on device	MS2
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

#### Connection 4

Function	Local input, muting sensor 3
Type of connection	Connector
Designation on device	MS3
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

#### Connection 5

Function	Local input, muting sensor 4
Type of connection	Connector
Designation on device	MS4
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

#### Connection 6

Function	Connection - external muting indicator
Type of connection	Connector
Designation on device	LMP
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

#### Connection 7

Function	Connection - start/muting restart button
Type of connection	Connector
Designation on device	RES
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

### Mechanical data

Design	Cubic
Dimension (W x H x L)	30 mm x 23.9 mm x 196 mm
Housing material	Plastic
Plastic housing	PA 6
Net weight	180 g
Housing color	Black
Type of fastening	Groove mounting Through-hole mounting

### Operation and display

Type of display	LED
Number of LEDs	6 Piece(s)

### Environmental data

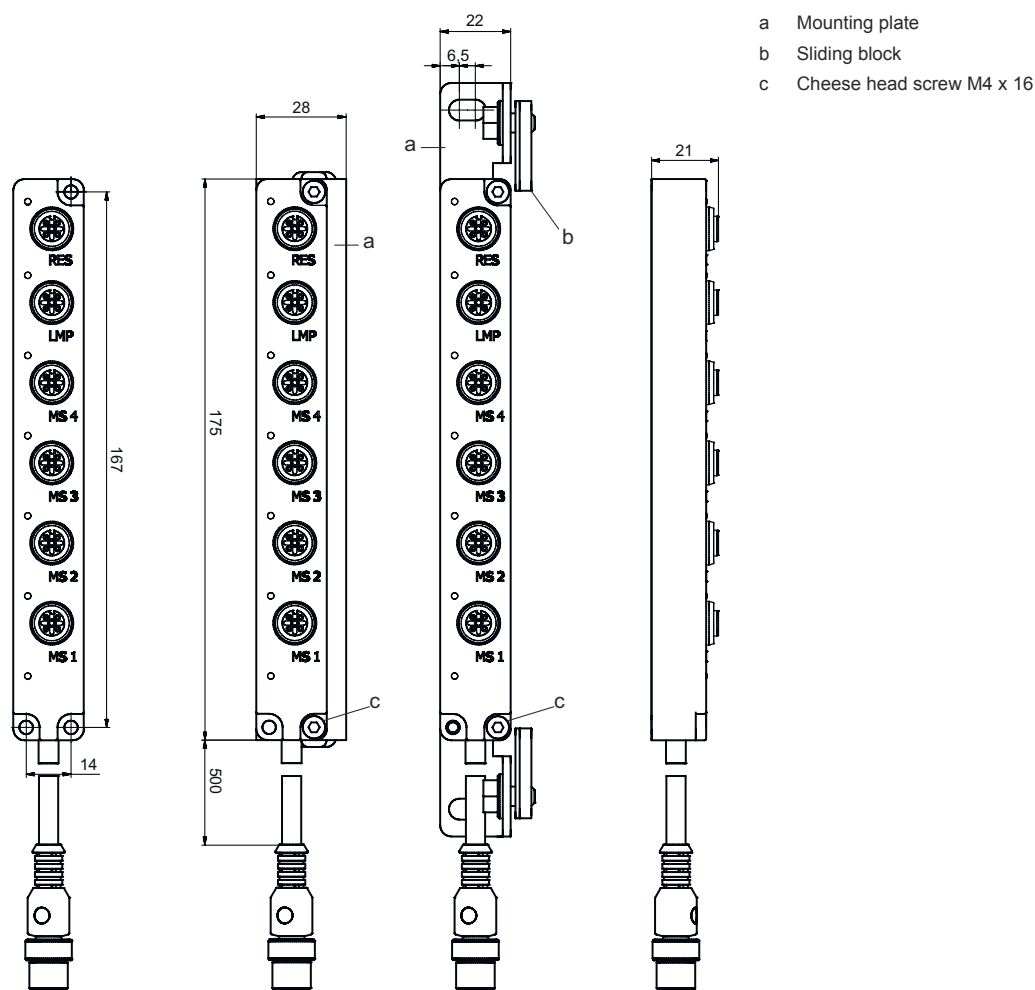
Ambient temperature, operation	-30 ... 80 °C
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## Technical data

Customs tariff number	85369010
ECLASS 5.1.4	27279201
ECLASS 8.0	27279219
ECLASS 9.0	27440108
ECLASS 10.0	27440108
ECLASS 11.0	27440108
ECLASS 12.0	27440108
ECLASS 13.0	27440108
ECLASS 14.0	27440108
ETIM 5.0	EC002585
ETIM 6.0	EC002585
ETIM 7.0	EC002585
ETIM 8.0	EC002585
ETIM 9.0	EC002585

## Dimensioned drawings

All dimensions in millimeters



AC-SCM7U

AC-SCM7U-BT

AC-SCM7U-BT-L

## Electrical connection

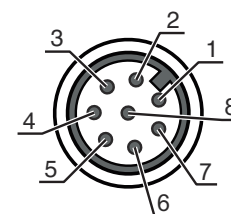
### Connection 1

### Connection to MLD

Function	Connection to device
Type of connection	Local interface
Cable length	Cable with connector
Sheathing material	500 mm
Cable color	PUR
Wire cross section	Black
Thread size	2 mm <sup>2</sup>
Type	M12
Material	Male
No. of pins	Metal
Encoding	8 -pin
	A-coded

### Pin Pin assignment

1	MS3
2	+24 V
3	MS2
4	MS1
5	RES/LMP
6	MS4
7	0 V
8	n.c.



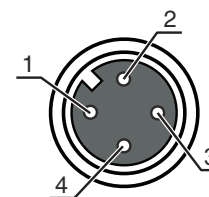
### Connection 2

### MS1

Function	Local input, muting sensor 1
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

### Pin Pin assignment

1	+24 V
2	n.c.
3	0 V
4	MS1
5	n.c.



### Connection 3

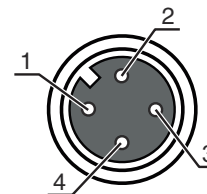
### MS2

Function	Local input, muting sensor 2
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

## Electrical connection

### Pin Pin assignment

1	+24 V
2	n.c.
3	0 V
4	MS2
5	n.c.



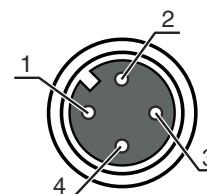
### Connection 4

### MS3

Function	Local input, muting sensor 3
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

### Pin Pin assignment

1	+24 V
2	n.c.
3	0 V
4	MS3
5	n.c.



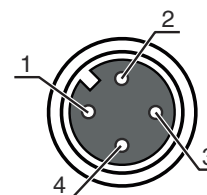
### Connection 5

### MS4

Function	Local input, muting sensor 4
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

### Pin Pin assignment

1	+24 V
2	n.c.
3	0 V
4	MS4
5	n.c.



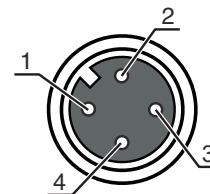
### Connection 6

### LMP

Function	Connection - external muting indicator
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

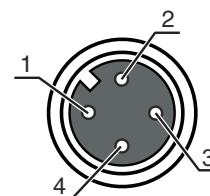
## Electrical connection

Pin	Pin assignment
1	n.c.
2	LMP
3	0 V
4	RES/LMP
5	n.c.



Connection 7	RES
Function	Connection - start/muting restart button
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment
1	+24 V
2	RES/LMP
3	n.c.
4	RES/LMP
5	n.c.




## Operation and display


LED	Display	Meaning
1	Yellow, continuous light	Muting sensor status
2	Yellow, continuous light	Muting sensor status
3	Yellow, continuous light	Muting sensor status
4	Yellow, continuous light	Muting sensor status
5	Yellow, continuous light	Muting indicator status
6	Yellow, continuous light	Muting start button status

## Accessories

### Muting - Indicators

	Part no.	Designation	Article	Description
	50135453	M4-V1-MW3-DS-C-T-M12-200	Muting indicator	Signaling: Optical Supply voltage: 24 V, AC/DC Current consumption, max.: 27 mA Connection: Cable with connector, 2,000 mm Design: Cylindrical Diameter: 40 mm Illuminant: LED/24V Signal image: Continuous light Lens color: Clear Angle of radiation: 360° Ambient temperature: -30 ... 60 °C Degree of protection: IP 66

## Accessories

	Part no.	Designation	Article	Description
	50135452	M7-V1-MW3-DS-C-T-M12-200	Muting indicator	Signaling: Optical Supply voltage: 24 V, AC/DC Current consumption, max.: 58 mA Connection: Cable with connector, 2,000 mm Design: Cylindrical Diameter: 70 mm Illuminant: LED/24V Signal image: Continuous light Lens color: Clear Angle of radiation: 360° Ambient temperature: -30 ... 60 °C Degree of protection: IP 66

### Note



↪ A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.