

# ITEM 156585 LCA-4TR-3B-810-AP-156585

Description	Technical data	Accessories	Downloads	
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## Features

- > Three beams
- > Protective field height 810 mm
- Range 12 m
- > With plug connector M12
- Two safety outputs (OSSD)
- Installation material is included with the product

#### **Protective function**



Figure
access control

LED function display



Transmitter



> Figure Receiver

LED OKNormal operationLED ERRORFault stateLED STOPStop stateLED TESTTest functionLED STARTStart/restart

## Pin assignment transmitter

Plug connector (view of connection side)	Pin	Designation	Function	Conductor coloring of connection cable	
2 1	1	24 V DC	Operating voltage, 24 V DC	BN	
	2	RANGE 0	Device configuration, corresponds to the standard EN 61131-2	WH	
	3	0 V DC	Operating voltage, 0 V DC	BU	
-	4	RANGE 1	Device configuration, corresponds to the standard EN 61131-2	ВК	
	5	FE	Function earth (must be connected to meet the EMC requirements)	GY	

**Connector assignment receiver** 

Plug connector (view of connection side)	Pin	Designation	Function	Conductor coloring of connection cable	
2 8 1	1	FO1A	Safety output, channel 1	WH	
3 . 7	2	24 V DC	Operating voltage, 24 V DC	BN	
4 5 6 3	3	FO1B	Safety output, channel 2	GN	
4		K1_K2/RESTART	Feedback external contactors	YE	
	5	SEL_A	Device configuration	GY	
_	6	SEL_B	Device configuration	РК	
	7	0 V DC	Operating voltage, 0 V DC	BU	
5		FE	Function earth (must be connected to meet the EMC requirements)	RD	

## Approvals



#### Mechanical values and environment

Number of safety outputs	2 Static, self-monitoring PNP safety outputs [1]
Height of the protective field	810 mm
Height of the sensor	953 mm
Maximum length of connection cables	100 m
Range of the protective field	12000 mm
Number of beams	3
Dimensions	28x30 mm <sup>[2]</sup>
Ambient temperature	-30 55 °C
Degree of protection	IP 65 / IP 67
Installation position	Any <sup>[3]</sup>
Reaction time	3 ms
Connection	Plug connector M12 (5-pin transmitter / 8-pin receiver)

## **Electrical connection ratings**

Cascadable

No

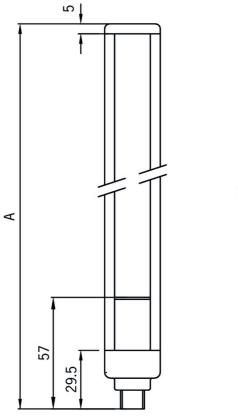
Muting possible	In combination with external sensors and an evaluation unit
Operating voltage DC	24 V DC -20% +20%
Current consumption	400 mA
Power consumption	
Transmitter	1 W
Receiver	2 W
LED indicator	Yes <sup>[4]</sup>

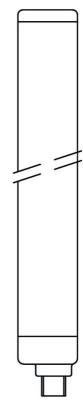
# Reliability values acc. to EN ISO 13849-1

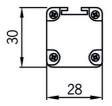
ESPE type	4 [5]
Performance Level	PL e [6]
PFHD	8,85×10 <sup>-9</sup>
Safety Integrity Level	SIL 3 / SILCL 3 <sup>[7]</sup>
Mission time	20 у

- $\ensuremath{^{[1]}}$  With short circuit and overload protection
- [2] In cross-section
- [3] Optional: adjustable holders
- [4] Self-diagnostics and status
- [5] Acc. to EN 61496-1
- [6] acc. to EN ISO 13849-1
- [7] According to IEC 61508-1...4 / IEC 62061

## **Dimension drawing**



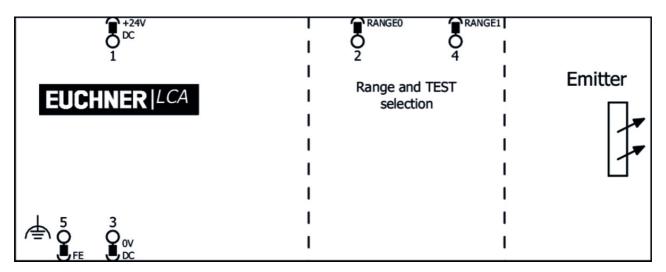




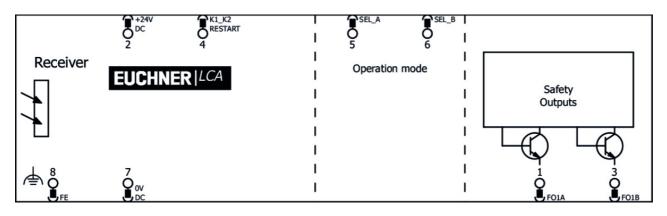
## Legende

A = Height of the sensor (see technical data)

## Wiring diagram transmitter



#### Wiring diagram receiver



#### Mounting accessories

Socket for mounting pillars 202 x 224 x 55 mm



**156884** AM-OS-P-AA-156884

Features

- > Socket for mounting pillars
- > Spring-mounted floor plate made of steel
- Improved compensation of unevenness
- Adjustable via adjusting screws
- > Height 55 mm

Socket for mounting pillars 202 x 224 x 34 mm



**156885** AM-OS-P-AB-156885

Features

- > Socket for mounting pillars
- > Adjustable via adjusting screws
- > Height 34 mm

Mounting pillar for protective field heights from 760 - 1060 mm or 3 - 4 beam light grids

# 156887 AM-OS-C-A1-1200-156887

Features

- > Mounting pillar for light grids and light curtains LCA
- > For protective field heights from 760 1060 mm or 3 4 beams
- > Protects against damage
- > Straightforward adjustment using spherical circular level in the cover

Mounting pillar with cable gland for protective field heights from 760 - 1060 mm or 3 - 4 beam light grids



**156891** AM-OS-C-A1-M-1200-156891

- Features
- > Mounting pillar for light grids and light curtains LCA
- > For protective field heights from 760 1060 mm or for 3 4 beams
- > With integrated cable gland PG11
- > Protects against damage

> Straightforward adjustment using spherical circular level in the cover

8 x vibration damper for protective field heights from 310 - 1,060 mm



#### 156917 AM-OS-D-V08-156917

Features

- > Vibration damper for light grids and light curtains LCA
- > For protective field heights 310 1060 mm
- > Packaging unit 8 pcs.
- > For reducing vibration
- > Protects against damage
- > Installation either on the product or on mounting pillar

#### 4 x adjustable holder



#### **156919** AM-OS-B-A1-V04-156919

## Features

- > Set of 4 holders for light grids and light curtains LCA
- > For protective field heights up to 1210 mm
- > Adjustable horizontally / vertically
- Quick mount using two screws
- > Can be mounted directly on LCA

#### 4 x adjustable holder 180°



#### **156921** AM-OS-B-A2-V04-156921

- Features
- > Set of 4 holders for light grids and light curtains LCA
- > Can be rotated by 180°
- > Adjustable horizontally / vertically
- > Quick mount using two screws
- > Can be mounted directly on LCA

#### Function expansion

Mounting pillar with deflection mirror for protective field heights from 760 - 910 mm or for 3 beam light grids

#### **156895** AE-OS-SC-1200-156895

Features

- > Mounting pillar with deflection mirror for light grids and light curtains LCA
- > For protective field heights from 760 910 mm or for 3 beams
- > Protects against damage
- > Straightforward adjustment using spherical circular level in the cover

Mounting pillar with 3 deflection mirrors for light grids with 3 beams

156900 AE-OS-SC-3B-156900

Features

- > Mounting pillar with 3 deflection mirrors for light grids
- > For protective field heights with 3 beams

- > Protects against damage
- > Straightforward adjustment using spherical circular level in the cover

Deflection mirror for protective field height 910 mm or 3 beam light grids

- **156908** AE-OS-S-910-156908
- Features
  - Deflection mirror with adjustable holder for light grids and light curtains LCA
  - For protective field height 910 mm or 3 beams

## Miscellaneous accessories

Laser alignment aid



156915 AY-OS-LSR-156915

Features

- > Laser alignment aid for light grids and light curtains LCA
- > Light source: Laser diode wavelength 650 nm
- > Laser class 2
- > Usable range 100 m
- > Straightforward clamping on the transmitter

### Connection material

Connection cable with straight plug connector M12, 5-pin, 5m



**100183** C-M12F05-05X034PV05,0-MA-100183

Features

- > M12 female plug, 5-pin
- > Straight plug connector
- > PVC cable
- > Cable length 5 m
- > With flying lead



**113620** C-M12F05-05X034PU05,0-MA-113620 ✓ Features

- > M12 female plug, 5-pin
- > Straight plug connector
- > PUR cable
- Cable length 5 m
- > With flying lead

Connection cable with plug connector M12, 5-pin, 10m



100184 C-M12F05-05X034PV10,0-MA-100184

- Features
  - > M12 female plug, 5-pin
  - > Straight plug connector
  - > PVC cable

- > Cable length 10 m
- > With flying lead
- Connection cable with plug connector M12, 5-pin, 20m



**100185** C-M12F05-05X034PV20,0-MA-100185

- Features
  - > M12 female plug, 5-pin
  - > Straight plug connector
  - > PVC cable
- > Cable length 20 m
- > With flying lead

Connection cable with straight plug connector M12, 5-pin, 10m



**113640** C-M12F05-05X034PU10,0-MA-113640

- Features
- > M12 female plug, 5-pin
- Straight plug connector
- > PUR cable
- > Cable length 10 m
- > With flying lead

Connection cable with straight plug connector M12, 5-pin, 20 m

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**113682** C-M12F05-05X034PU20,0-MA-113682 ▼ Features

- > M12 female plug, 5-pin
- Straight plug connector
- > PUR cable
- > Cable length 20 m
- > With flying lead

Connection cable with straight plug connector M12, 5-pin, 30 m



**122784** C-M12F05-05X034PU30,0-MA-122784 Features

- > M12 female plug, 5-pin
- > Straight plug connector
- > PUR cable
- > Cable length 30 m
- > With flying lead

Connection cable with 2 plug connectors M12, 5-pin, 5m



**100180** C-M12F05-05X034PV05,0-M12M05-100180 ▼ Features

- > M12 female plug to M12 plug connector, 5-pin
- > Straight female plug and plug connector
- > PVC cable
- > Cable length 5 m



#### **119932** C-M12F05-05X034PU05,0-M12M05-119932

Features

- > M12 female plug to M12 plug connector, 5-pin
- > Straight female plug and plug connector
- > PUR cable
- > Cable length 5 m

Connection cable with 2 plug connectors M12, 5-pin, 10m



**100181** C-M12F05-05X034PV10,0-M12M05-100181

- Features
- > M12 female plug to M12 plug connector, 5-pin
- > Straight female plug and plug connector
- > PVC cable
- > Cable length 10 m



#### **119947** C-M12F05-05X034PU10,0-M12M05-119947 ✓ Features

- > M12 female plug to M12 plug connector, 5-pin
- > Straight female plug and plug connector
- > PUR cable
- > Cable length 10 m

Connection cable with 2 plug connectors M12, 5-pin, 20m



#### **100182** C-M12F05-05X034PV20,0-M12M05-100182 Features

- reatures
- > M12 female plug to M12 plug connector, 5-pin
- > Straight female plug and plug connector
- > PVC cable
- > Cable length 20 m



#### **119971** C-M12F05-05X034PU20,0-M12M05-119971 ▼ Features

- > M12 female plug to M12 plug connector, 5-pin
- > Straight female plug and plug connector
- > PUR cable
- > Cable length 20 m

### Connection cable with plug connector M12, 8-pin, 5m



### **100177** C-M12F08-08X025PV05,0-MA-100177

- > M12 female plug, 8-pin
- Straight plug connector
- > PVC cable

Features

- > Cable length 5 m
- > With flying lead



**115112** C-M12F08-08X025PU05,0-MA-115112 ▼ Features

- > M12 female plug, 8-pin
- > Straight plug connector
- > PUR cable
- > Cable length 5 m
- > With flying lead

### Connection cable with plug connector M12, 8-pin, 10m



## **100178** C-M12F08-08X025PV10,0-MA-100178

## Features

- > M12 female plug, 8-pin
- > Straight plug connector
- > PVC cable
- > Cable length 10 m
- > With flying lead



# 115113 C-M12F08-08X025PU10,0-MA-115113

- Features
  - > M12 female plug, 8-pin
  - Straight plug connector
  - > PUR cable
- > Cable length 10 m
- > With flying lead

#### Connection cable with plug connector M12, 8-pin, 20m



**100179** C-M12F08-08X025PV20,0-MA-100179

- Features
  - > M12 female plug, 8-pin
  - > Straight plug connector
  - > PVC cable
  - > Cable length 20 m
  - > With flying lead



**115114** C-M12F08-08X025PU20,0-MA-115114

# Features

- > M12 female plug, 8-pin
- > Straight plug connector
- > PUR cable
- > Cable length 20 m
- > With flying lead

#### Connection cable with plug connector M12, 8-pin, 30m



### **115116** C-M12F08-08X025PV30,0-MA-115116 ▼ Features

- > M12 female plug, 8-pin
- > Straight plug connector
- > PVC cable
- > Cable length 30 m
- > With flying lead



## **115257** C-M12F08-08X025PU30,0-MA-115257

- FeaturesM12 female plug, 8-pin
  - Straight plug connector
  - > PUR cable
  - > Cable length 30 m
  - > With flying lead

Connection cable with 2 plug connectors M12, 1m



123430 C-M12M08-08X025PV01,0-M12F08-123430

Features

- > 8-pin M12 male plug, straight
- > 8-pin M12 female connector, straight
- > PVC cable
- > Cable length 1m

Connection cable with 2 plug connectors M12, 2m



123431 C-M12M08-08X025PV02,0-M12F08-123431

Features

- > 8-pin M12 male plug, straight
- > 8-pin M12 female connector, straight
- > PVC cable
- > Cable length 2m

Connection cable with 2 plug connectors M12, 5m



**123432** C-M12M08-08X025PV05,0-M12F08-123432

Features

- > 8-pin M12 male plug, straight
- > 8-pin M12 female connector, straight
- > PVC cable
- > Cable length 5m

### Connection cable with 2 plug connectors M12, 10m



**123433** C-M12M08-08X025PV10,0-M12F08-123433

- Features
  - > 8-pin M12 male plug, straight
  - > 8-pin M12 female connector, straight
  - > PVC cable
  - > Cable length 10m

#### Instructions

Manual de instrucciones Barreras/cortinas fotoeléctricas LCA 4

	Doc. no.	Version	Language	Download
Betriebsanleitung Lichtgitter/ Lichtvorhänge LCA 4 Operating Instructions Light Grids/ Light Curtains LCA 4	2504709	02-02/18		<mark>™</mark> 5.2 MB
Mode d'emploi Barrières photoélectriques / rideaux lumineux LCA 4	2504709	02-02/18		🔁 3.1 MB
Manual de instrucciones Barreras/cortinas fotoeléctricas LCA 4	2504709	02-02/18		🔁 3.1 MB

# Catalogs

Light grids and light curtains LCA Barreras fotoeléctricas y cortinas fotoeléctricas LCA Barrières photoélectriques et rideaux lumineux LCA Lichtgitter und Lichtvorhänge LCA

	Doc. no.	Version	Language	Download
Lichtgitter und Lichtvorhänge LCA	157084	03-03/18		🔀 2.5 MB
Barrières photoélectriques et rideaux lumineux LCA	157086	03-03/18		🔁 2.5 MB
Barreras fotoeléctricas y cortinas fotoeléctricas LCA	157087	03-03/18	2	🔁 2.5 MB
Light grids and light curtains LCA	157085	03-03/18		🔁 2.5 MB

## **Declaration of conformity**

## EU-Konformitätserklärung

	Doc. no.	Version	Language	Download
EU-Konformitätserklärung Declaración UE de conformidad Déclaration UE de conformité Dichiarazione di conformità EU declaration of conformity	2503625	02-08/17		🔁 0.2 MB