

# ITEM 156669 LCA-2TR-50-1660-AP-156669

Description	Technical data	Accessories	Downloads
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## Features

- Resolution 50 mm
- Protective field height 1,660 mm
- Range 12 m
- > With plug connector M12
- Two safety outputs (OSSD)
- Installation material is included with the product

### **Protective function**



Figure
Body protection (arms / legs)

**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
5	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	F01A	Safety output, channel 1	WH
3 . 7	2	24 V DC	Operating voltage, 24 V DC	BN
4 5 6	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
	8	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 <sup>[1]</sup>
Resolution	50 mm
Height of the protective field	1660 mm
Height of the sensor	1713 mm
Maximum length of connection cables	100 m
Range of the protective field	12000 mm
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	12 ms
Connection	Plug connector M12 (5-pin transmitter / 8-pin receiver)

# **Electrical connection ratings**

Cascadable

No

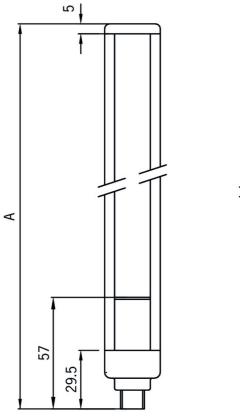
Muting possible	In combination with external sensors and an evaluation unit
Operating voltage DC	24 V DC -20% +20%
Current consumption	400 mA
Power consumption	
Transmitter	1 W
Receiver	2 W
LED indicator	Yes [4]

# Reliability values acc. to EN ISO 13849-1

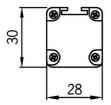
ESPE type	2 [5]
Performance Level	PL c [6]
PFHD	5,36x10 <sup>-8</sup>
Safety Integrity Level	SIL 1 / SILCL 1 <sup>[7]</sup>
Mission time	20 у

- $\ensuremath{^{[1]}}$  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**



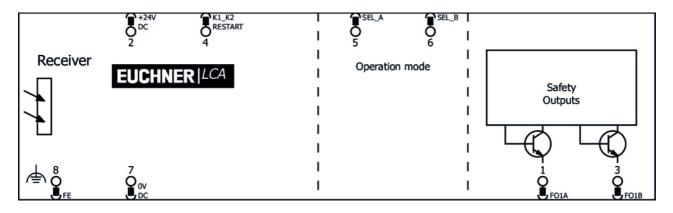




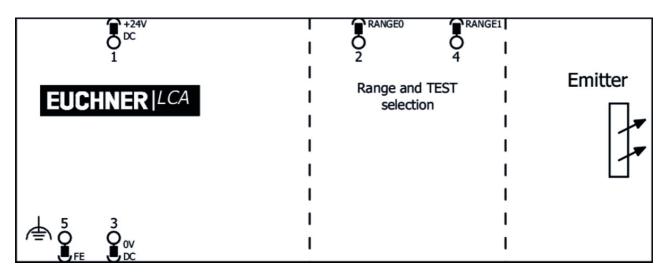
# Legende

A = Height of the sensor (see technical data)

# Wiring diagram receiver



## Wiring diagram transmitter



### 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 1510 to 1660 mm

### **156889** AM-OS-C-A1-1970-156889

Features

- > Mounting pillar for light grids and light curtains LCA
- > For protective field heights from 1510 to 1660 mm
- > Protects against damage
- > Straightforward adjustment using spherical circular level in the cover

### Mounting pillar with cable gland for protective field heights from 1510 to 1660 mm

**156893** AM-OS-C-A1-M-1970-156893

Features

> Mounting pillar for light grids and light curtains LCA

- > For protective field heights from 1510 to 1660 mm
- > With integrated cable gland PG11
- Protects against damage
- > Straightforward adjustment using spherical circular level in the cover
- 12 x vibration damper for protective field heights of 1,210 to 1,810 mm or 2- to 4-beam light grids



**156918** AM-OS-D-V12-156918 ▼ Features

- > Vibration damper for light grids and light curtains LCA
- > For protective field heights 1210 1810 mm or 2- 4 beams
- > Packaging unit 12 pcs.
- > For reducing vibration
- > Protects against damage
- > Installation either on the product or on mounting pillar

#### 6 x adjustable holder



### **156920** AM-OS-B-A1-V06-156920

Features

- > Set of 6 holders for light grids and light curtains LCA
- > For protective field heights from 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 1510 to 1660 mm

# **156898** AE-OS-SC-1970-156898

- Features
  - > Mounting pillar with deflection mirror for light grids and light curtains LCA
  - > For protective field heights from 1510 to 1660 mm
- > Protects against damage
- > Straightforward adjustment using spherical circular level in the cover

Deflection mirror for protective field height 1660mm



- > Deflection mirror with adjustable holder for light curtains LCA
- > For protective field height 1660 mm

## 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

## Test rod Ø 50 mm



# 156925 AY-OS-FTR-50-156925

- Features
  - > Test rod for light curtains LCA
  - > Used for function test
  - > Ø 50 mm
  - > Cylinder with matt surface

# **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

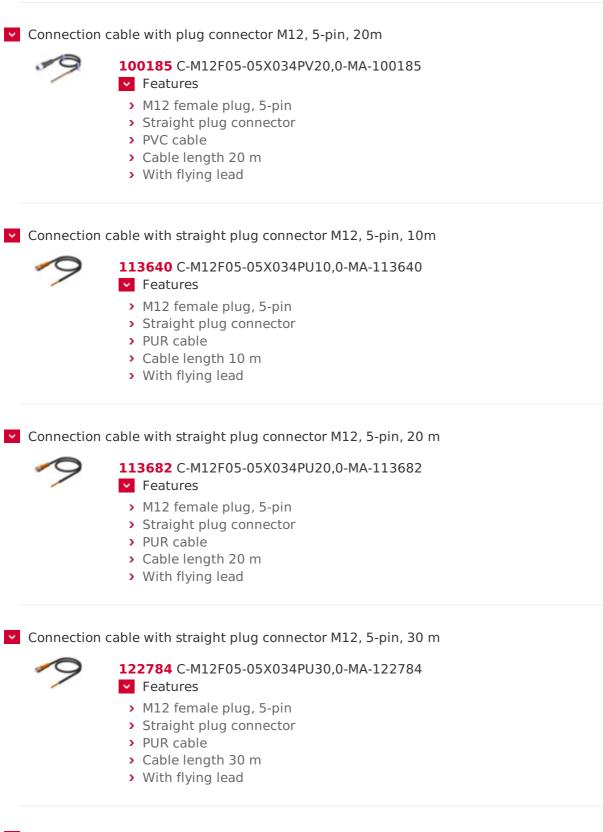
Connection cable with plug connector M12, 5-pin, 10m



**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 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

- > 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 ▼ Features

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

- FeaturesM12 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

Features

- > M12 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

# 9 12

# **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

	Doc. no.	Version	Language	Download
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Manual de instrucciones Barreras/cortinas fotoeléctricas LCA 2	2504708	02-02/18		🔁 2.5 MB

# Catalogs

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

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## **Declaration of conformity**

EU-Konformitätserklärung

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