

ITEM 156579 LCA-4TR-50-1210-AP-156579

Description	Technical data	Accessories	Downloads	
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Features

- Resolution 50 mm
- Protective field height 1,210 mm
- Extended range 20 m
- > LED indicator for weak signal
- > With plug connector M12
- Two safety outputs (OSSD)
- Installation material is included with the product

Protective function



Figure
 Body protection (arms / legs)



Transmitter



> Figure Receiver

LED OK	Normal operation
LED ERROR	Fault state
LED STOP	Stop state
LED TEST	Test function
LED START	Start/ restart
LED SIGNAL LOW	Weak signal

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	FO1A	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	PK
	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 ^[1]
Resolution	50 mm
Height of the protective field	1210 mm
Height of the sensor	1263 mm
Maximum length of connection cables	100 m
Range of the protective field	20000 mm
Dimensions	28x30 mm ^[2]
Ambient temperature	-30 55 °C
Degree of protection	IP 65 / IP 67
Installation position	Any ^[3]
Reaction time	6 ms
Connection	Plug connector M12 (5-pin transmitter / 8-pin receiver)

Electrical connection ratings

Cascadable

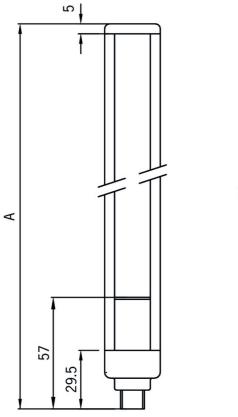
Muting possible	In combination with external sensors and an evaluation unit
Operating voltage DC	24 V DC -20% +20%
Current consumption	400 mA
Power consumption	
Transmitter	1 W
Receiver	2 W
LED indicator	Yes [4]

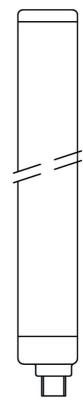
Reliability values acc. to EN ISO 13849-1

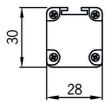
ESPE type	4 [5]
Performance Level	PL e [6]
PFHD	1,41×10 ⁻⁸
Safety Integrity Level	SIL 3 / SILCL 3 ^[7]
Mission time	20 у

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



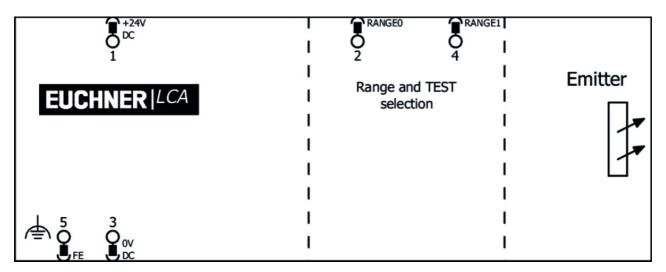




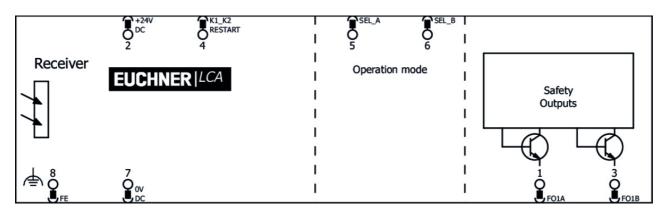
Legende

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 1210 to 1360 mm

156888 AM-OS-C-A1-1670-156888

Features

- > Mounting pillar for light grids and light curtains LCA
- > For protective field heights from 1210 to 1360 mm
- > Protects against damage
- > Straightforward adjustment using spherical circular level in the cover

Mounting pillar with cable gland for protective field heights from 1210 to 1360 mm

156892 AM-OS-C-A1-M-1670-156892

- Features
 - > Mounting pillar for light grids and light curtains LCA
 - > For protective field heights from 1210 to 1360 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

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

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

Function expansion

Mounting pillar with deflection mirror for protective field heights from 1060 to 1360 mm

156897 AE-OS-SC-1670-156897

Features

- > Mounting pillar with deflection mirror for light grids and light curtains LCA
- For protective field heights from 1060 to 1360 mm

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

Deflection mirror for protective field height 1210 mm

- **156910** AE-OS-S-1210-156910 ▼ Features
 - Deflection mirror with adjustable holder for light curtains LCA
 - > For protective field height 1210 mm

Miscellaneous accessories





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 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



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

- > 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



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 mWith 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

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



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		🔁 2.5 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	2503625	02-08/17		📩 0.2 MB
Declaración UE de conformidad			<u> </u>	
Déclaration UE de conformité				
Dichiarazione di conformità				
EU declaration of conformity				