

ITEM 156641 LCA-2TR-30-1060-AP-156641

Description	Technical data	Accessories	Downloads
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Features

- Resolution 30 mm
- Protective field height 1,060 mm
- Range 12 m
- > With plug connector M12
- Two safety outputs (OSSD)
- Installation material is included with the product

Protective function



Figure
hand protection

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	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	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 ^[1]
Resolution	30 mm
Height of the protective field	1060 mm
Height of the sensor	1113 mm
Maximum length of connection cables	100 m
Range of the protective field	12000 mm
Dimensions	28x30 mm ^[2]
Ambient temperature	-30 55 °C
Degree of protection	IP 65 / IP 67
Installation position	Any ^[3]
Reaction time	14,5 ms
Connection	Plug connector M12 (5-pin transmitter / 8-pin receiver)

Electrical connection ratings

Cascadable

No

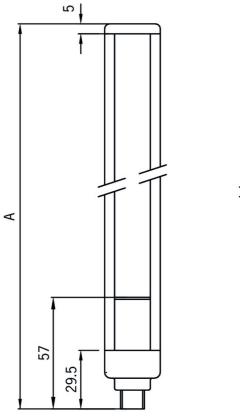
Muting possible	In combination with external sensors and an evaluation unit
Operating voltage DC	24 V DC -20% +20%
Current consumption	400 mA
Power consumption	
Transmitter	1 W
Receiver	2 W
LED indicator	Yes ^[4]

Reliability values acc. to EN ISO 13849-1

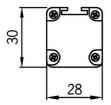
ESPE type	2 [5]
Performance Level	PL c [6]
PFHD	5,84×10 ⁻⁸
Safety Integrity Level	SIL 1 / SILCL 1 ^[7]
Mission time	20 у

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



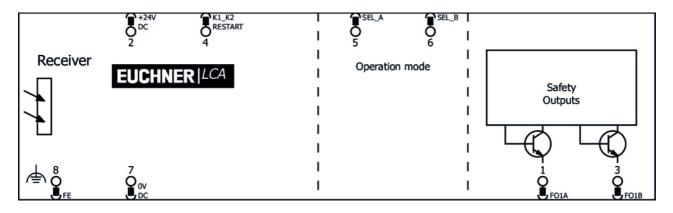




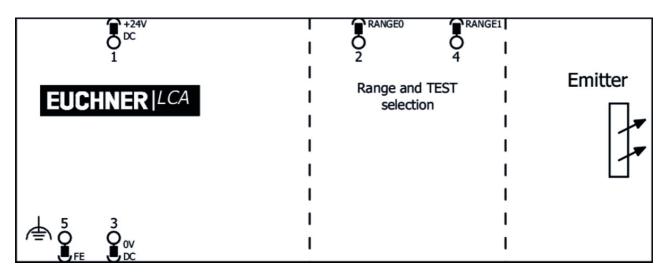
Legende

A = Height of the sensor (see technical data)

Wiring diagram 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 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 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 1060 mm or 4 beam light grids

Features

- Deflection mirror with adjustable holder for light grids and light curtains LCA
- > For protective field height 1060 mm or 4 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

Test rod Ø 30 mm



156923 AY-OS-FTR-30-156923

- Features
 - > Test rod for light curtains LCA
 - Used for function test
 - > Ø 30 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

- FeaturesM12 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



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

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

- FeaturesM12 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

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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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