

ITEM 156558 LCA-4TR-40-1660-AP-156558

Description	Technical data	Accessories	Downloads	
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Features

- Resolution 40 mm
- Protective field height 1,660 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
hand protection



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	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	40 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	20000 mm
Dimensions	28x30 mm ^[2]
Ambient temperature	-30 55 °C
Degree of protection	IP 65 / IP 67
Installation position	Any ^[3]
Reaction time	8,5 ms
Connection	Plug connector M12 (5-pin transmitter / 8-pin receiver)

Electrical connection ratings

Cascadable

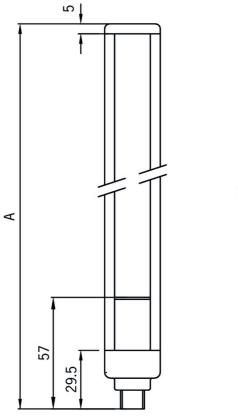
Muting possible	In combination with external sensors and an evaluation unit
Operating voltage DC	24 V DC -20% +20%
Current consumption	400 mA
Power consumption	
Transmitter	1 W
Receiver	2 W
LED indicator	Yes [4]

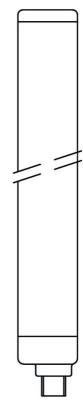
Reliability values acc. to EN ISO 13849-1

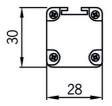
ESPE type	4 [5]
Performance Level	PL e [6]
PFHD	1,55×10 ⁻⁸
Safety Integrity Level	SIL 3 / SILCL 3 ^[7]
Mission time	20 у

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



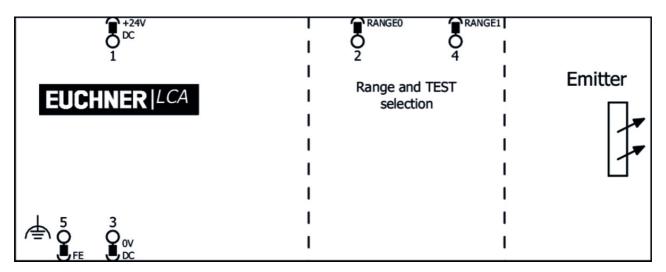




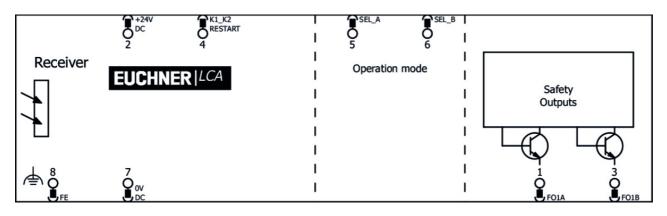
Legende

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 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

- > 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

156913 AE-OS-S-1660-156913

- > 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 40 mm



156924 AY-OS-FTR-40-156924

- Features
 - > Test rod for light curtains LCA
 - > Used for function test
 -) Ø 40 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

- > 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

- M12 female plug, 5-pin
- Straight plug connector
- > PUR cable

Features

- > 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



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



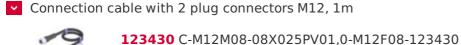
115116 C-M12F08-08X025PV30,0-MA-115116

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



Features

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



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

Betriebsanleitung Lichtgitter/ Lichtvorhänge LCA 4 Operating Instructions Light Grids/ Light Curtains LCA 4	2504709	02-02/18		🔁 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	<u>.</u>	🔁 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