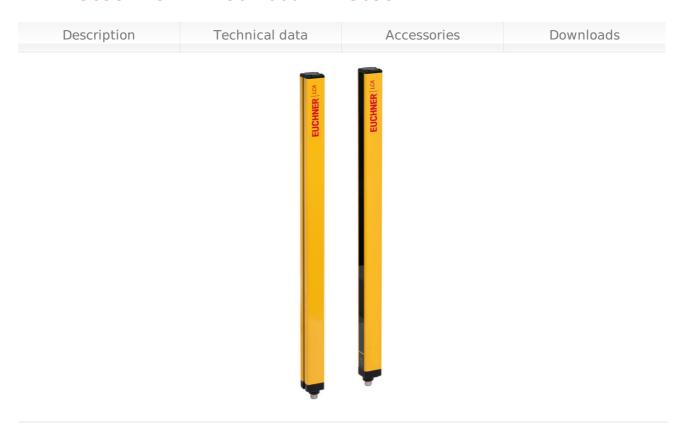


ITEM 156582 LCA-4TR-50-1660-AP-156582



Features

- Resolution 50 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
Body protection (arms / legs)

LED function display



> Figure
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 FO		FO1B	Safety output, channel 2	GN	
			Feedback external contactors	YE	
	5	SEL_A	Device configuration	GY	
	6 SEL_B Device configurat		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	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	7 ms
Connection	Plug connector M12 (5-pin transmitter / 8-pin receiver)

Electrical connection ratings

Cascadable	No
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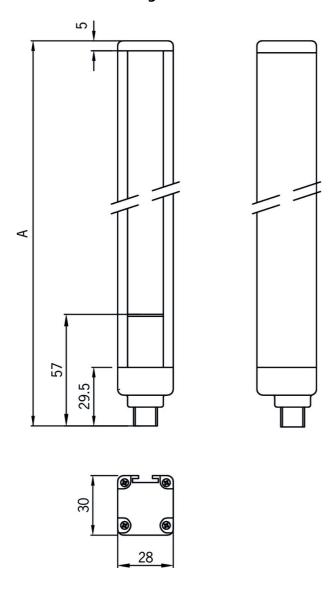
Muting possible	In combination with external sensors and an evaluation unit
Operating voltage DC	24 V DC -20% +20%
Current consumption	400 mA
Power consumption	
Transmitte	r 1 W
Receive	r 2 W
LED indicator	Yes [4]

Reliability values acc. to EN ISO 13849-1

ESPE type	4 [5]
Performance Level	PL e [6]
PFHD	1,55x10 ⁻⁸
Safety Integrity Level	SIL 3 / SILCL 3 [7]
Mission time	20 y

- ${}^{\hbox{\scriptsize [1]}}$ 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

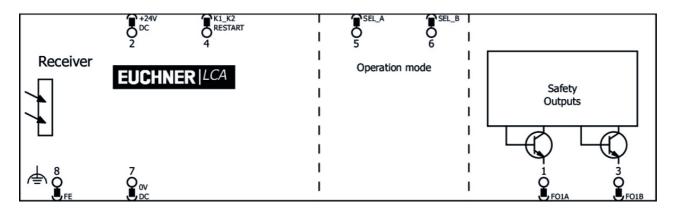
Dimension drawing



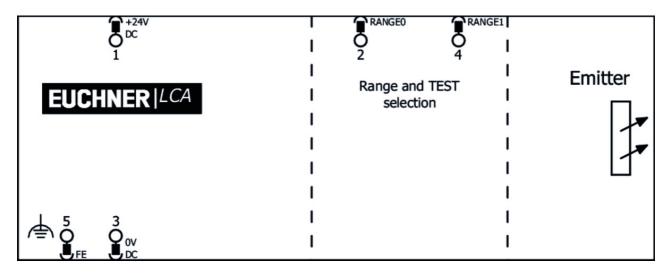
Legende

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

- Features
 - > 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 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



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

- 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

Manual de instrucciones Barreras/cortinas fotoeléctricas LCA 4

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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

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