

Light grids and light curtains

LCA

**EUCHNER**

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EUCHNER

More than safety.



Headquarters in Leinfelden-Echterdingen



Logistics center in Leinfelden-Echterdingen



Production location in Unterböhringen

Internationally successful – the EUCHNER company

EUCHNER GmbH + Co. KG is a world-leading company in the area of industrial safety technology. EUCHNER has been developing and producing high-quality switching systems for mechanical and systems engineering for more than 60 years.

The medium-sized family-operated company based in Leinfelden, Germany, employs around 750 people around the world.

18 subsidiaries and other sales partners in Germany and abroad work for our international success on the market.

Quality and innovation – the EUCHNER products

A look into the past shows EUCHNER to be a company with a great inventive spirit. We take the technological and ecological challenges of the future as an incentive for extraordinary product developments.

EUCHNER safety switches monitor safety doors on machines and installations, help to minimize dangers and risks and thereby reliably protect people and processes. Today, our products range from electromechanical and electronic components to intelligent integrated safety solutions. Safety for people, machines and products is one of our dominant themes.

We define future safety technology with the highest quality standards and reliable technology. Extraordinary solutions ensure the great satisfaction of our customers. The product ranges are subdivided as follows:

- ▶ Transponder-coded Safety Switches
- ▶ Transponder-coded Safety Switches with guard locking
- ▶ Multifunctional Gate Box MGB
- ▶ Access management systems (Electronic-Key-System EKS)
- ▶ Electromechanical Safety Switches
- ▶ Magnetically coded Safety Switches
- ▶ Enabling Switches
- ▶ Safety Relays
- ▶ Emergency Stop Devices
- ▶ Hand-Held Pendant Stations and Handwheels
- ▶ Safety Switches with AS-Interface
- ▶ Joystick Switches
- ▶ Position Switches



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LCA 4

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Light grids and light curtains LCA

Light grids and light curtains are electro-sensitive protective equipment (ESPE) for securing danger areas on machines and installations. They use several light beams to form an invisible safety light curtain in front of the danger area. When a machine operator interrupts one of these light beams, this will cause the safety outputs to switch off.

When installed vertically, light grids and light curtains serve the purpose of access control for operating personnel. When installed horizontally, they secure areas or prevent people from stepping behind them.

Electro-sensitive protective equipment is used whenever

- a machine operator must interact with the machine in very brief cycles, e.g. at loading points of automatic assembly machines.
- dangerous work areas must be secured in a continuously interlinked material flow without disturbing the material flow.
- the danger area must be secured on machines without a safety enclosure, e.g. on sheet metal processing machines, on presses, on film winding machines and on paper cutting machines.

The advantages of LCA at a glance

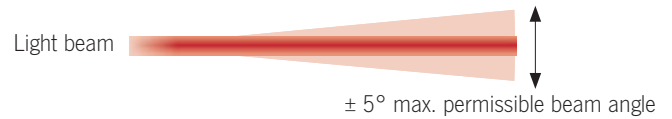
- | | |
|---|--|
| <ul style="list-style-type: none"> ■ High level of protection against tampering ■ Category 4/PL e or category 2/PL c ■ SIL 3 or SIL 1 ■ Less wiring work thanks to plug connector ■ High degree of protection IP67/IP65 ■ Deflection mirrors permit versatile use | <ul style="list-style-type: none"> ■ Shorter access time and greater productivity through simple interaction between operator and machine ■ Compact design ■ Very simple setup through various start modes ■ Wide product range with numerous applications |
|---|--|
-

Differentiation between LCA devices of type 2 and type 4

On devices of type 2, the safety function is checked by periodic tests. Any fault is detected during the next periodic test, and the safety outputs are switched off. Light grids and light curtains of type 2 correspond to safety category SIL 1 and category 2/PL c can be achieved. The maximum permissible beam angle per light beam is $\pm 5^\circ$.

LCA type 2

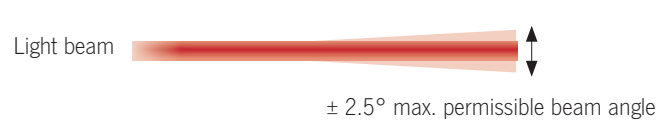
Category 2/PL c or SIL 1



Devices of type 4 can be used in applications requiring category 4/PL e and SIL 3. They are characterized by the property of switching off a machine movement as soon as a fault occurs. Automatic restarting is prevented. The maximum beam angle per light beam is $\pm 2.5^\circ$. The beam angle of the emitted beam is only half the size here, resulting in a much higher radiation density and, above all, much higher sensor immunity to reflections from highly reflective surfaces nearby.

LCA type 4

Category 4/PL e or SIL 3

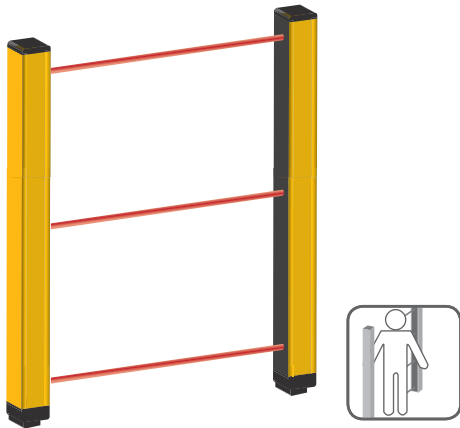


Light grids vs. light curtains

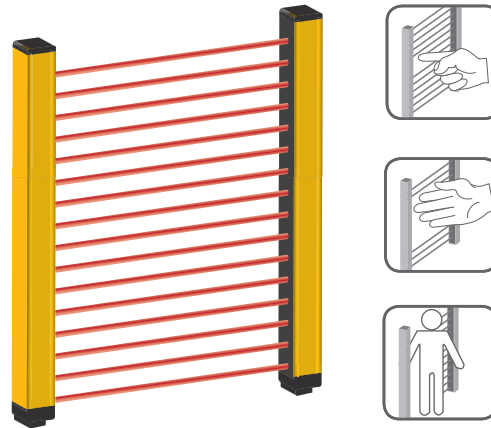
The basic distinction between light grids and light curtains is the number of light beams used to produce a protective field.

Light grids produce a protective field consisting of 2 – 4 light beams. Owing to the large distance between the individual light beams, light grids are particularly suitable for access control to large work areas and for applications involving a large distance between the operator and the hazardous movement.

Light curtains consist of many light beams, which can detect different body parts depending on the resolution (14 – 50 mm). A distinction is made between finger, hand and body protection.



Light grid
2 - 4 light beams



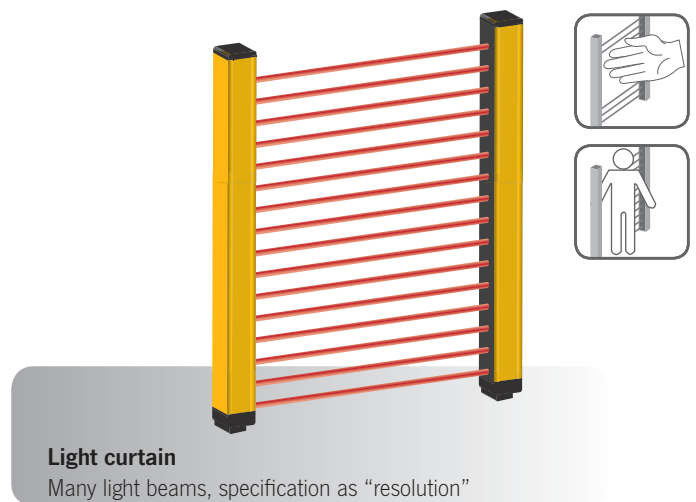
Light curtain
Many light beams, specification as "resolution"

	Resolution/beams	Protective function	
Light curtains	14 mm	Finger protection	
	30 mm	Hand protection	
	40 mm	Hand protection	
	50 mm	Body protection (arms/legs)	
Light grid	2	Access control	
	3	Access control	
	4	Access control	

Light curtains LCA type 2

LCA 2TR-30/40/50

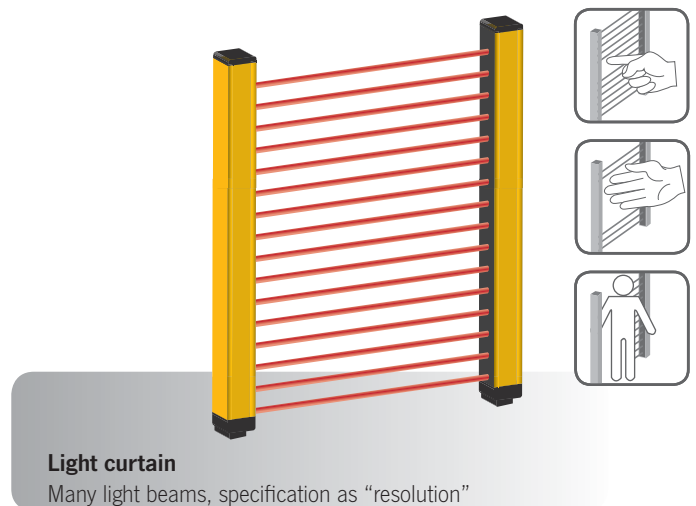
- ▶ BWS Type 2 according to EN IEC 61496-1
- ▶ Protective function hand protection/body protection (arms/legs)
- ▶ Resolution 30 ... 50 mm
- ▶ Feedback loop integration
- ▶ Protective field height 160 ... 1810 mm
- ▶ Degree of protection IP65/IP67
- ▶ 2 safety outputs
- ▶ PL c/category 2 according to EN ISO 13849-1
- ▶ SIL 1 according to EN IEC 62061



Light curtains LCA type 4

LCA 4TR-14/30/40/50

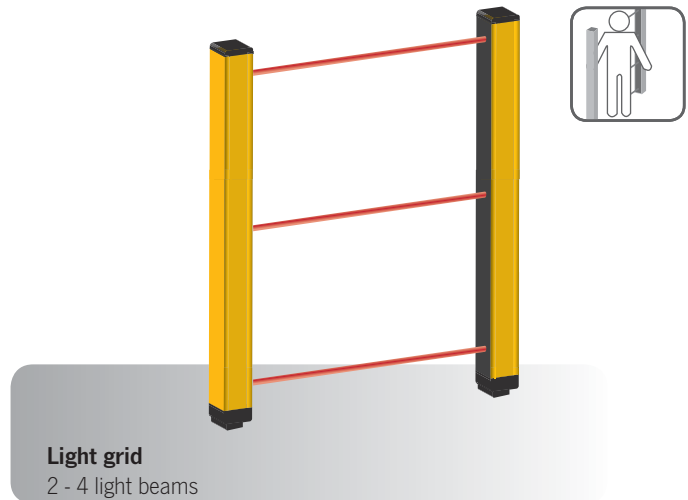
- ▶ BWS Type 4 according to EN IEC 61496-1
- ▶ Protective function finger protection/hand protection/body protection (arms/legs)
- ▶ Resolution 14 ... 50 mm
- ▶ Extended range
- ▶ Feedback loop integration
- ▶ Protective field height 160 ... 1810 mm
- ▶ Degree of protection IP65/IP67
- ▶ 2 safety outputs
- ▶ PL e/category 4 according to EN ISO 13849-1
- ▶ SIL 3 according to EN IEC 62061



Light grids LCA type 2

LCA 2TR-2B/3B/4B

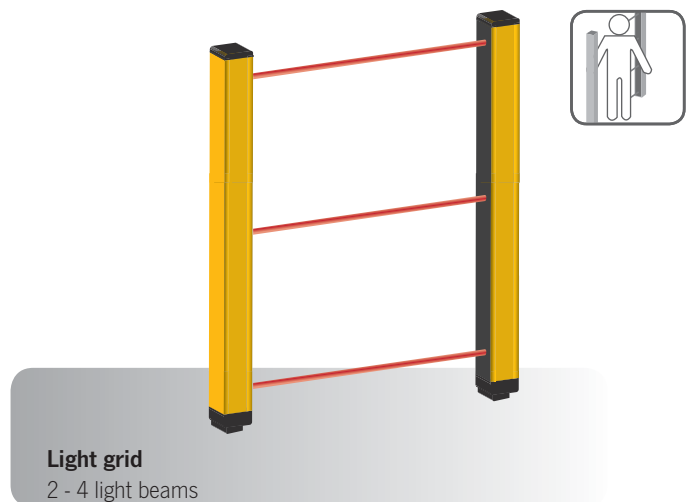
- ▶ BWS Type 2 according to EN IEC 61496-1
- ▶ Protective function access control
- ▶ Beams 2 ... 4
- ▶ Feedback loop integration
- ▶ Protective field height 510 ... 910 mm
- ▶ Degree of protection IP65/IP67
- ▶ 2 safety outputs
- ▶ PL c/category 2 according to EN ISO 13849-1
- ▶ SIL 1 according to EN IEC 62061



Light grids LCA type 4

LCA 4TR-2B/3B/4B

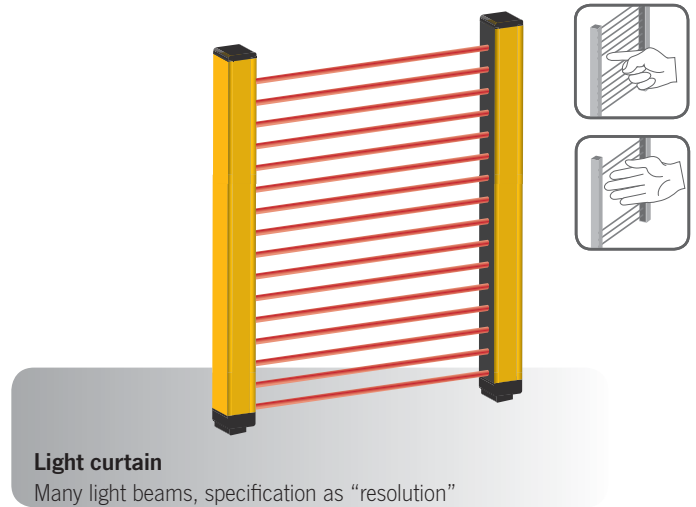
- ▶ BWS Type 4 according to EN IEC 61496-1
- ▶ Protective function access control
- ▶ Beams 2 ... 4
- ▶ Extended range
- ▶ Feedback loop integration
- ▶ Protective field height 510 ... 910 mm
- ▶ Degree of protection IP65/IP67
- ▶ 2 safety outputs
- ▶ PL e/category 4 according to EN ISO 13849-1
- ▶ SIL 3 according to EN IEC 62061



Light curtains LCA type 4 master / slave

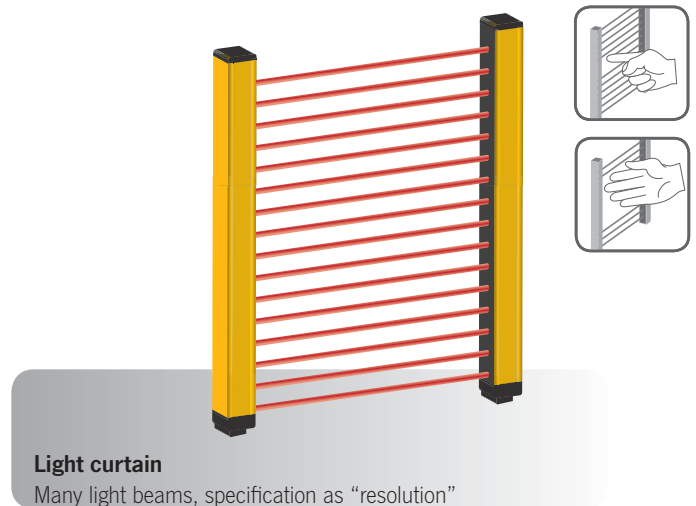
LCA 4TR-M-14/30

- ▶ BWS Type 4 according to EN IEC 61496-1
- ▶ Protective function finger protection/hand protection
- ▶ Resolution 14 ... 30 mm
- ▶ Can be connected in series
- ▶ Feedback loop integration
- ▶ Protective field height 260 ... 1210 mm
- ▶ Degree of protection IP65/IP67
- ▶ 2 safety outputs
- ▶ PL e/category 4 according to EN ISO 13849-1
- ▶ SIL 3 according to EN IEC 62061



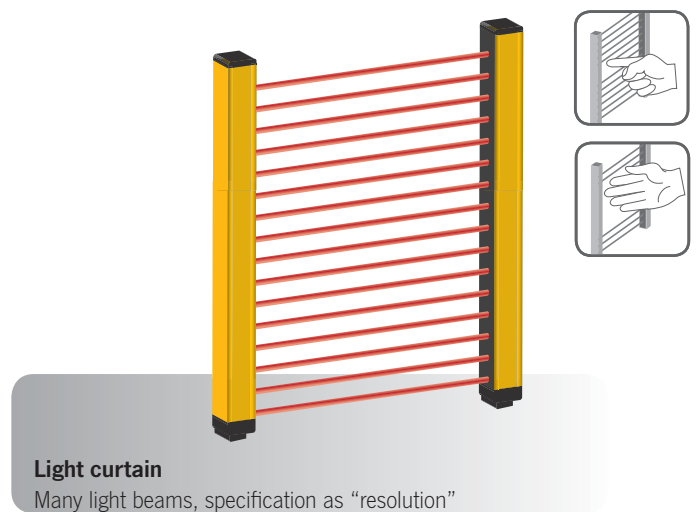
LCA 4TR-S1-14/30

- ▶ BWS Type 4 according to EN IEC 61496-1
- ▶ Protective function finger protection/hand protection
- ▶ Resolution 14 ... 30 mm
- ▶ Can be connected in series
- ▶ Protective field height 160 ... 1210 mm
- ▶ Degree of protection IP65/IP67
- ▶ PL e/category 4 according to EN ISO 13849-1
- ▶ SIL 3 according to EN IEC 62061



LCA 4TR-S2-14/30

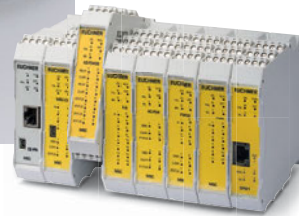
- ▶ BWS Type 4 according to EN IEC 61496-1
- ▶ Protective function finger protection/hand protection
- ▶ Resolution 14 ... 30 mm
- ▶ Can be connected in series
- ▶ Protective field height 310 ... 1210 mm
- ▶ Degree of protection IP65/IP67
- ▶ PL e/category 4 according to EN ISO 13849-1
- ▶ SIL 3 according to EN IEC 62061



Function expansion

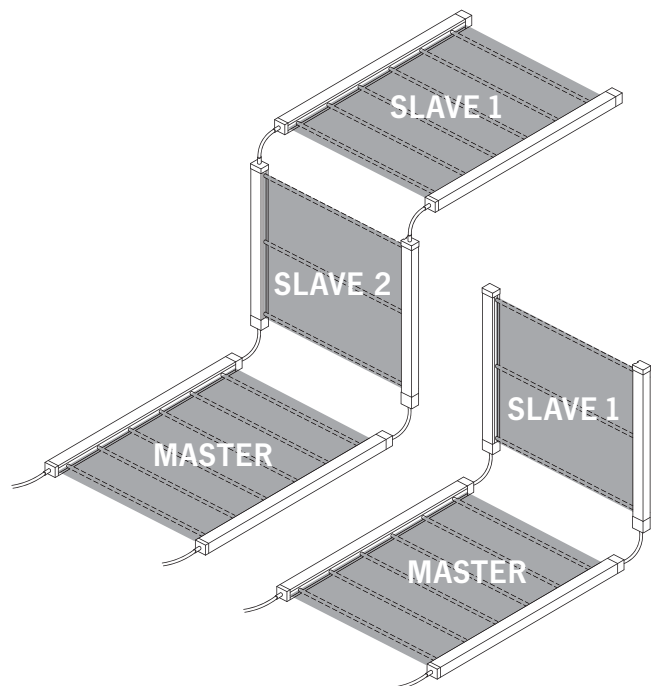
Muting

Muting allows safety functions of a light grid or light curtain to be bypassed automatically for a limited time. For example, parts supplied to a danger area can pass through the protective field without triggering the safety function. With the aid of additional sensors, the control system monitors the proper procedure and detects whether people move through the protective field instead of the defined parts, for example. This function is simple to implement with devices from series LCA and the programmable small control system MSC.



Cascading (series connection) of light curtains

Up to three light curtains of type 4 can be connected in series to secure danger areas. Various master/slave versions with various sizes and resolutions are available for this purpose. They can be combined with each other to implement different protective functions (finger and hand protection) at the same time. One frequently implemented application involves preventing people from stepping behind access protection. This ensures that nobody remains in an installation when it is to be started.



Versatile accessories

Deflection mirrors and mounting pillars

Mounting pillars are available for the installation of the light grids and light curtains; these pillars provide additional protection for the devices.

EUCHNER also offers a large number of deflection mirrors in different heights, both pre-assembled in mounting pillars and as separate products, ideal for fastening to profiles.

In this way the entire danger area can be secured using a single transmitter/receiver pair.

You can find accessories for your device very simply at

www.euchner.com.

Laser alignment aid and test rods

EUCHNER offers a laser alignment aid that simplifies the alignment of safety light grids and curtains with large ranges or on the usage of deflection mirrors.

It is possible to check the related protective function (finger protection, hand protection or body protection) with the aid of the test rods provided by EUCHNER.

You can find accessories for your device very simply at

www.euchner.com.

Connection material

EUCHNER offers a large selection of connection cables, plug connectors and other connection accessories.

You can find accessories for your device very simply at

www.euchner.com.

Installation material

EUCHNER also offers vibration dampers and brackets for a wide variety of fastening situations.

You can find accessories for your device very simply at

www.euchner.com.

»Cost-saving solution for applications up to PL c«

- ▶ Type 2 according to EN IEC 61496-1
- ▶ Safe monitoring options for any application
- ▶ Simple connection
- ▶ Integrated evaluation
- ▶ Feedback loop connection
- ▶ PL c/category 2 according to EN ISO 13849-1
- ▶ SIL 1 according to EN IEC 62061

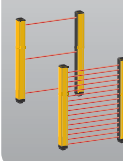
LCA

2

LCA 2



LCA 2



Light grid LCA-2TR-B-... (2 ... 4 beams)



- ▶ **Number of beams: 2 ... 4 beams**
- ▶ **Protective function: access control**
- ▶ **Securing danger areas**
- ▶ **Range 12 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL c/category 2 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 2 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 15
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-2TR-B-...	Transmitter M12, 5-pin Receiver M12, 8-pin	2	3	510	156671 LCA-2TR-2B-510-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
		3	3.5	810	156672 LCA-2TR-3B-810-AP	
		4	3.5	910	156673 LCA-2TR-4B-910-AP	

Dimension drawing

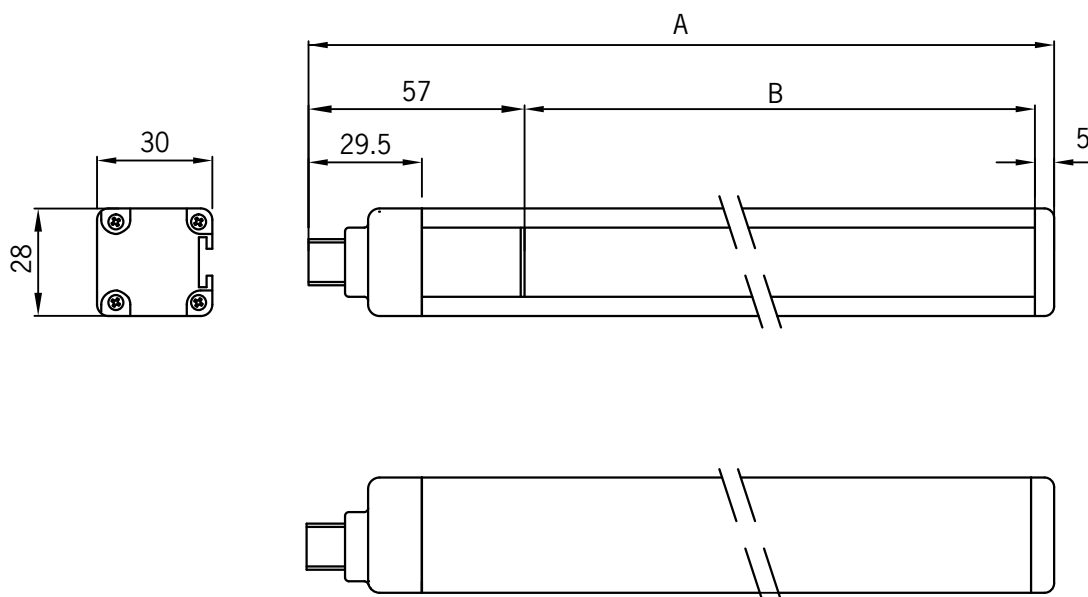


Table 1: Dimensions transmitter and receiver models LCA 2 2B, LCA 2 3B and LCA 2 4B

Height	2B	Model 3B	4B
A (Standard)	653	953	1053
B*	510	810	910
Mounting	2 holders AM-OS-B-A1 with 2 inserts		

B* = Distance display label to protective cap

Light curtains LCA-2TR-50-... (50 mm)



- ▶ **Resolution 50 mm**
- ▶ **Protective function: body protection (arms/legs)**
- ▶ **Range 12 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL c/category 2 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 2 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 17
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-2TR-50-...	Transmitter M12, 5-pin Receiver M12, 8-pin	50 mm	3.5	160	156659 LCA-2TR-50-160-AP	For detailed information, enter the order number in the search box at www.euchner.com .
			4.5	310	156660 LCA-2TR-50-310-AP	
			5.5	460	156661 LCA-2TR-50-460-AP	
			6	610	156662 LCA-2TR-50-610-AP	
			7	760	156663 LCA-2TR-50-760-AP	
			8	910	156664 LCA-2TR-50-910-AP	
			9	1060	156665 LCA-2TR-50-1060-AP	
			10	1210	156666 LCA-2TR-50-1210-AP	
			10.5	1360	156667 LCA-2TR-50-1360-AP	
			11.5	1510	156668 LCA-2TR-50-1510-AP	
			12	1660	156669 LCA-2TR-50-1660-AP	
			13	1810	156670 LCA-2TR-50-1810-AP	

Dimension drawing

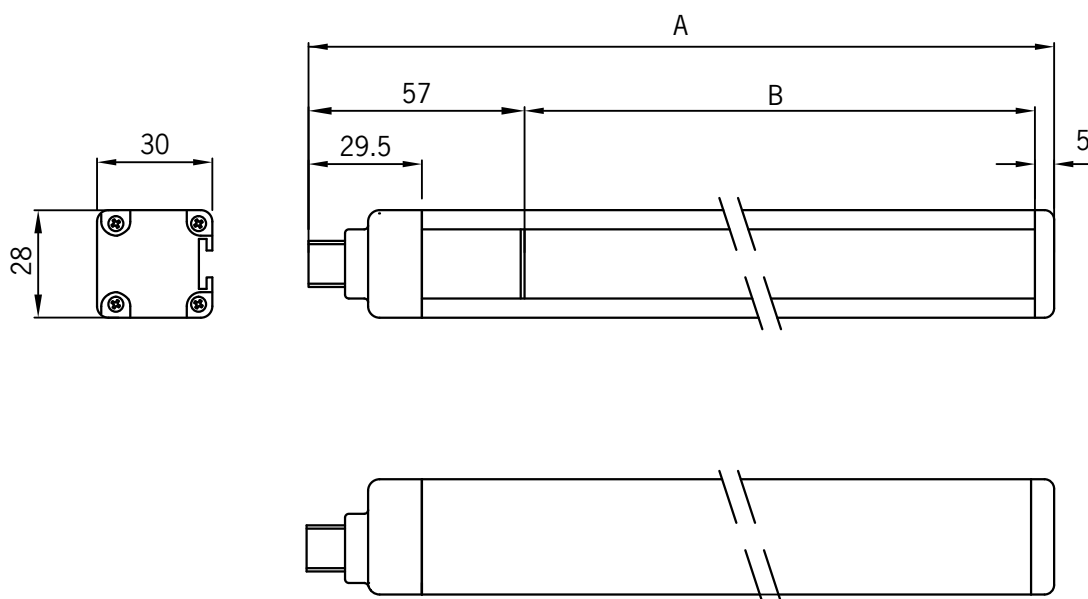


Table 2: Dimensions transmitter and receiver

Height	Model											
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
A (Standard)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863
B*	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800
Mounting	2 holders AM-OS-B-A1 with 2 inserts							3 holders AM-OS-B-A1 with 3 inserts				

B* = Distance display label to protective cap

Light curtains LCA-2TR-40-... (40 mm)



- ▶ **Resolution 40 mm**
- ▶ **Protective function: hand protection**
- ▶ **Range 12 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL c/category 2 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 2 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 19
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-2TR-40-...	Transmitter M12, 5-pin Receiver M12, 8-pin	40 mm	4	160	156647 LCA-2TR-40-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
			5	310	156648 LCA-2TR-40-310-AP	
			6	460	156649 LCA-2TR-40-460-AP	
			7.5	610	156650 LCA-2TR-40-610-AP	
			8.5	760	156651 LCA-2TR-40-760-AP	
			9.5	910	156652 LCA-2TR-40-910-AP	
			10.5	1060	156653 LCA-2TR-40-1060-AP	
			11.5	1210	156654 LCA-2TR-40-1210-AP	
			13	1360	156655 LCA-2TR-40-1360-AP	
			14	1510	156656 LCA-2TR-40-1510-AP	
			15	1660	156657 LCA-2TR-40-1660-AP	
			16	1810	156658 LCA-2TR-40-1810-AP	

Dimension drawing

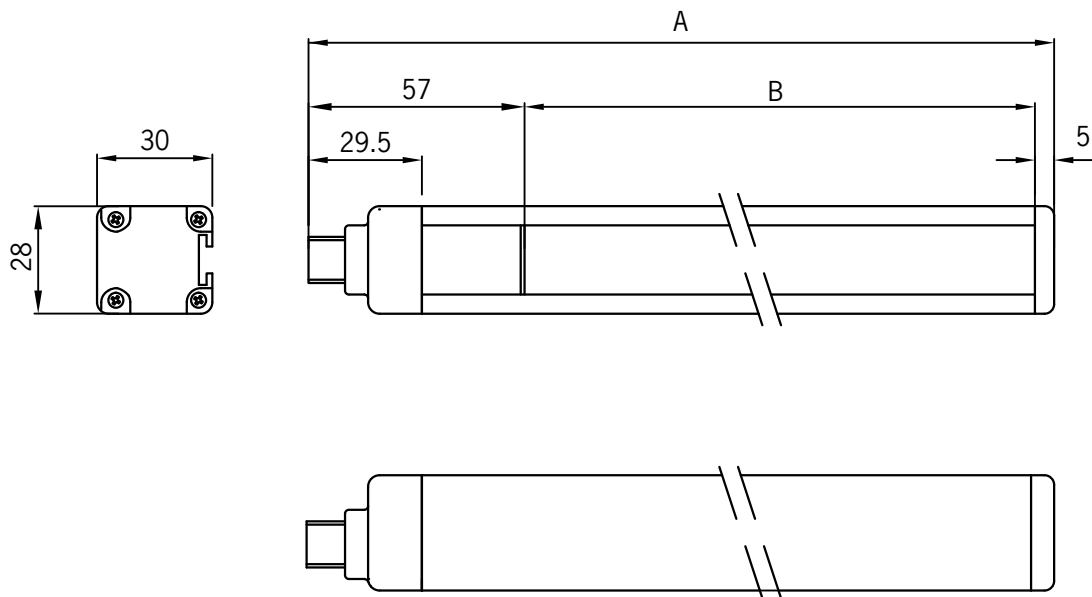


Table 3: Dimensions transmitter and receiver

Height	Model											
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
A (Standard)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863
B*	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800
Mounting	2 holders AM-OS-B-A1 with 2 inserts							3 holders AM-OS-B-A1 with 3 inserts				

B* = Distance display label to protective cap

Light curtains LCA-2TR-30-... (30 mm)



- ▶ **Resolution 30 mm**
- ▶ **Protective function: hand protection**
- ▶ **Range 12 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL c/category 2 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 2 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 21
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-2TR-30-...	Transmitter M12, 5-pin Receiver M12, 8-pin	30 mm	4.5	160	156635 LCA-2TR-30-160-AP	For detailed information, enter the order number in the search box at www.euchner.com .
			6	310	156636 LCA-2TR-30-310-AP	
			8	460	156637 LCA-2TR-30-460-AP	
			10	610	156638 LCA-2TR-30-610-AP	
			11	760	156639 LCA-2TR-30-760-AP	
			13	910	156640 LCA-2TR-30-910-AP	
			14.5	1060	156641 LCA-2TR-30-1060-AP	
			16	1210	156642 LCA-2TR-30-1210-AP	
			17.5	1360	156643 LCA-2TR-30-1360-AP	
			19.5	1510	156644 LCA-2TR-30-1510-AP	
			21	1660	156645 LCA-2TR-30-1660-AP	
			22.5	1810	156646 LCA-2TR-30-1810-AP	

Dimension drawing

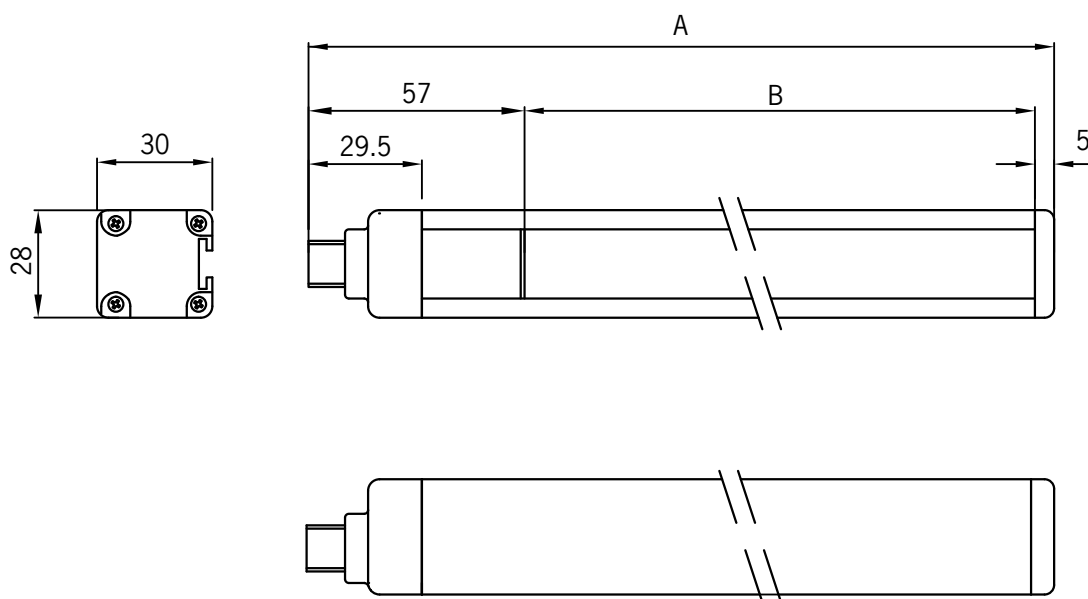


Table 4: Dimensions transmitter and receiver

Height	Model											
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
A (Standard)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863
B*	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800
Mounting	2 holders AM-OS-B-A1 with 2 inserts							3 holders AM-OS-B-A1 with 3 inserts				

B* = Distance display label to protective cap

»Invisible protection for every application«

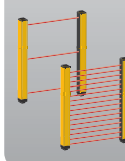
- ▶ Type 4 according to EN IEC 61496-1
- ▶ Safe monitoring options for any application
- ▶ Simple connection
- ▶ Integrated evaluation
- ▶ Feedback loop connection
- ▶ PL e/category 4 according to EN ISO 13849-1
- ▶ SIL 3 according to EN IEC 62061

LCA

4



LCA 4



LCA 4

Light grid LCA-4TR-.B-... (2 ... 4 beams)



- ▶ **Number of beams:** 2 ... 4 beams
- ▶ **Protective function:** access control
- ▶ **Securing danger areas**
- ▶ **Range** 12 m/20 m
- ▶ **Installation material** is included with the product

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 25
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-.B-...	Transmitter M12, 5-pin	2	12 m	2.5	510	156584 LCA-4TR-2B-510-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
		3		3	810	156585 LCA-4TR-3B-810-AP	
		4		3	910	156586 LCA-4TR-4B-910-AP	
	Receiver M12, 8-pin	2	20 m	2.5	510	156587 LCA-4TR-2B-510-AP	
		3		2.5	810	156588 LCA-4TR-3B-810-AP	
		4		2.5	910	156589 LCA-4TR-4B-910-AP	

Dimension drawing

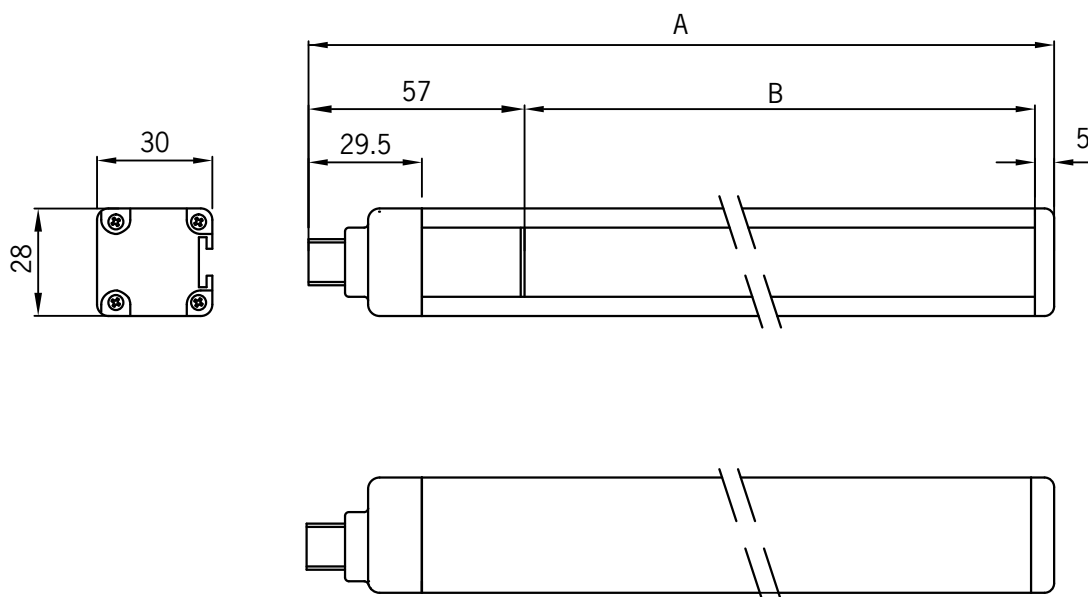


Table 5: Dimensions transmitter and receiver models LCA 2 2B, LCA 2 3B and LCA 2 4B

Height	Model		
	2B	3B	4B
A (Standard)	653	953	1053
B*	510	810	910
Mounting	2 holders AM-OS-B-A1 with 2 inserts		

B* = Distance display label to protective cap

Light curtains LCA-4TR-50-... (50 mm)



- ▶ **Resolution 50 mm**
- ▶ **Protective function: body protection (arms/legs)**
- ▶ **Range 12 m/20 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 28
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-50-...	Transmitter M12, 5-pin Receiver M12, 8-pin	50 mm	12 m	3	160	156560 LCA-4TR-50-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
				4	310	156561 LCA-4TR-50-310-AP	
				4.5	460	156562 LCA-4TR-50-460-AP	
				5.5	610	156562 LCA-4TR-50-610-AP	
				6.5	760	156564 LCA-4TR-50-760-AP	
				7.5	910	156565 LCA-4TR-50-910-AP	
				8.5	1060	156566 LCA-4TR-50-1060-AP	
				9	1210	156567 LCA-4TR-50-1210-AP	
				10	1360	156568 LCA-4TR-50-1360-AP	
				11	1510	156569 LCA-4TR-50-1510-AP	
				12	1660	156570 LCA-4TR-50-1660-AP	
				13	1810	156571 LCA-4TR-50-1810-AP	



Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-50-...	Transmitter M12, 5-pin Receiver M12, 8-pin	50 mm	20 m	2.5	160	156572 LCA-4TR-50-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
				3	310	156573 LCA-4TR-50-310-AP	
				3.5	460	156574 LCA-4TR-50-460-AP	
				4	610	156575 LCA-4TR-50-610-AP	
				4.5	760	156576 LCA-4TR-50-760-AP	
				5	910	156577 LCA-4TR-50-910-AP	
				5.5	1060	156578 LCA-4TR-50-1060-AP	
				6	1210	156579 LCA-4TR-50-1210-AP	
				6.5	1360	156580 LCA-4TR-50-1360-AP	
				7	1510	156581 LCA-4TR-50-1510-AP	
				7	1660	156582 LCA-4TR-50-1660-AP	
				8	1810	156583 LCA-4TR-50-1810-AP	

Dimension drawing

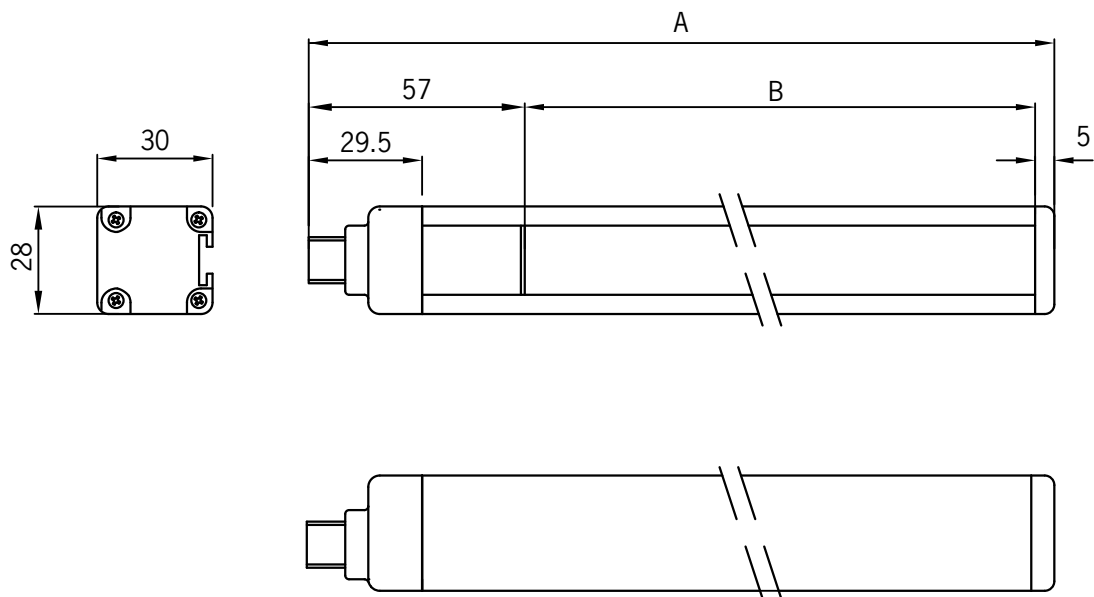


Table 6: Dimensions transmitter and receiver

Height	Model											
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
A (Standard)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863
B*	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800
Mounting	2 holders AM-OS-B-A1 with 2 inserts							3 holders AM-OS-B-A1 with 3 inserts				

B* = Distance display label to protective cap

Light curtains LCA-4TR-40-... (40 mm)



- ▶ **Resolution 40 mm**
- ▶ **Protective function: hand protection**
- ▶ **Range 12 m/20 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 32
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-40-...	Transmitter M12, 5-pin Receiver M12, 8-pin	40 mm	12 m	3.5	160	156536 LCA-4TR-40-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
				4.5	310	156537 LCA-4TR-40-310-AP	
				5.5	460	156538 LCA-4TR-40-460-AP	
				7	610	156539 LCA-4TR-40-610-AP	
				8	760	156540 LCA-4TR-40-760-AP	
				9	910	156541 LCA-4TR-40-910-AP	
				10	1060	156542 LCA-4TR-40-1060-AP	
				11	1210	156543 LCA-4TR-40-1210-AP	
				12.5	1360	156544 LCA-4TR-40-1360-AP	
				13.5	1510	156545 LCA-4TR-40-1510-AP	
				14.5	1660	156546 LCA-4TR-40-1660-AP	
				15.5	1810	156547 LCA-4TR-40-1810-AP	

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-40-...	Transmitter M12, 5-pin Receiver M12, 8-pin	40 mm	20 m	3	160	156548 LCA-4TR-40-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
				3.5	310	156549 LCA-4TR-40-310-AP	
				4	460	156550 LCA-4TR-40-460-AP	
				4.5	610	156551 LCA-4TR-40-610-AP	
				5	760	156552 LCA-4TR-40-760-AP	
				6	910	156553 LCA-4TR-40-910-AP	
				6.5	1060	156554 LCA-4TR-40-1060-AP	
				7	1210	156555 LCA-4TR-40-1210-AP	
				7.5	1360	156556 LCA-4TR-40-1360-AP	
				8	1510	156557 LCA-4TR-40-1510-AP	
				8.5	1660	156558 LCA-4TR-40-1660-AP	
				9.5	1810	156559 LCA-4TR-40-1810-AP	

Dimension drawing

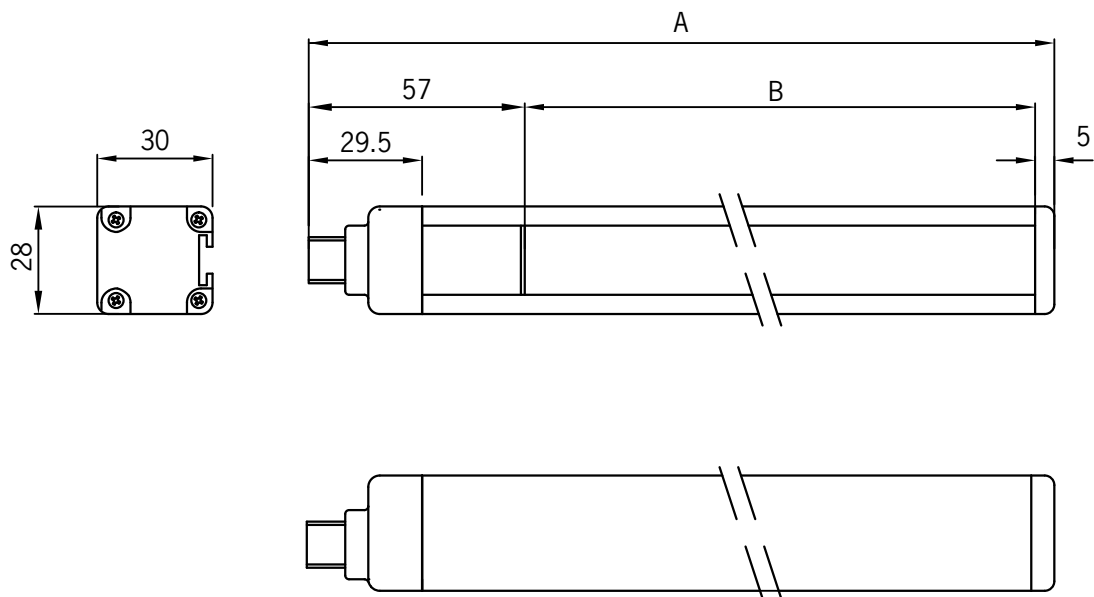


Table 7: Dimensions transmitter and receiver

Height	Model											
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
A (Standard)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863
B*	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800
Mounting	2 holders AM-OS-B-A1 with 2 inserts							3 holders AM-OS-B-A1 with 3 inserts				

B* = Distance display label to protective cap

Light curtains LCA-4TR-30-... (30 mm)



- ▶ **Resolution 30 mm**
- ▶ **Protective function: hand protection**
- ▶ **Range 12 m/20 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 36
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-30-...	Transmitter M12, 5-pin Receiver M12, 8-pin	30 mm	12 m	4	160	156512 LCA-4TR-30-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
				5.5	310	156513 LCA-4TR-30-310-AP	
				7.5	460	156514 LCA-4TR-30-460-AP	
				9	610	156515 LCA-4TR-30-610-AP	
				10.5	760	156516 LCA-4TR-30-760-AP	
				12.5	910	156517 LCA-4TR-30-910-AP	
				14	1060	156518 LCA-4TR-30-1060-AP	
				15.5	1210	156519 LCA-4TR-30-1210-AP	
				17	1360	156520 LCA-4TR-30-1360-AP	
				19	1510	156521 LCA-4TR-30-1510-AP	
				20.5	1660	156522 LCA-4TR-30-1660-AP	
				22.5	1810	156523 LCA-4TR-30-1810-AP	

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-30-...	Transmitter M12, 5-pin Receiver M12, 8-pin	30 mm	20 m	3	160	156524 LCA-4TR-30-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
				4	310	156525 LCA-4TR-30-310-AP	
				5	460	156526 LCA-4TR-30-460-AP	
				6	610	156527 LCA-4TR-30-610-AP	
				6.5	760	156528 LCA-4TR-30-760-AP	
				7.5	910	156529 LCA-4TR-30-910-AP	
				8.5	1060	156530 LCA-4TR-30-1060-AP	
				9.5	1210	156531 LCA-4TR-30-1210-AP	
				10	1360	156532 LCA-4TR-30-1360-AP	
				11	1510	156533 LCA-4TR-30-1510-AP	
				12	1660	156534 LCA-4TR-30-1660-AP	
				13	1810	156535 LCA-4TR-30-1810-AP	

Dimension drawing

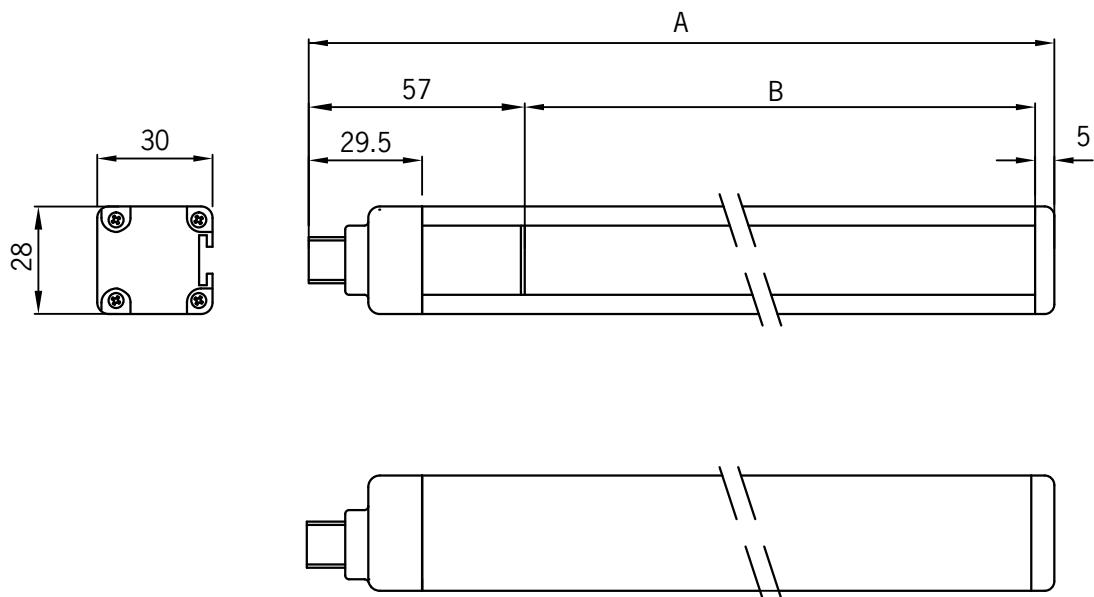


Table 8: Dimensions transmitter and receiver

Height	Model											
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
A (Standard)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863
B*	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800
Mounting	2 holders AM-OS-B-A1 with 2 inserts							3 holders AM-OS-B-A1 with 3 inserts				

B* = Distance display label to protective cap

Light curtains LCA-4TR-14-... (14 mm)



- ▶ **Resolution 14 mm**
- ▶ **Protective function: finger protection**
- ▶ **Range 6 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 39
- ▶ Accessories and spare parts see p. 54

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-14-...	Transmitter M12, 5-pin Receiver M12, 8-pin	14 mm	6 m	4	160	156500 LCA-4TR-14-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
				5.5	310	156501 LCA-4TR-14-310-AP	
				7.5	460	156502 LCA-4TR-14-460-AP	
				9	610	156503 LCA-4TR-14-610-AP	
				11	760	156504 LCA-4TR-14-760-AP	
				13	910	156505 LCA-4TR-14-910-AP	
				14.5	1060	156506 LCA-4TR-14-1060-AP	
				16.5	1210	156507 LCA-4TR-14-1210-AP	
				18	1360	156508 LCA-4TR-14-1360-AP	
				20	1510	156509 LCA-4TR-14-1510-AP	
				22	1660	156510 LCA-4TR-14-1660-AP	
				23.5	1810	156511 LCA-4TR-14-1810-AP	

Dimension drawing

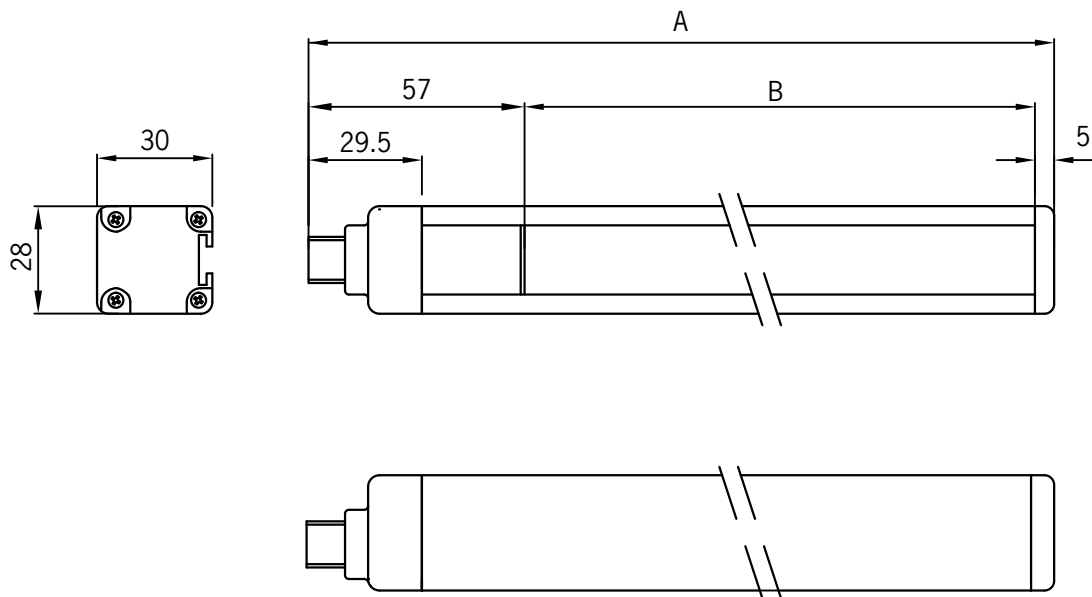


Table 9: Dimensions transmitter and receiver

Height	Model											
	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
A (Standard)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863
B*	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800
Mounting	2 holders AM-OS-B-A1 with 2 inserts							3 holders AM-OS-B-A1 with 3 inserts				

B* = Distance display label to protective cap

»Efficient wiring of up to 3 devices«

- ▶ Type 4 according to EN IEC 61496-1
- ▶ Cascading (series connection)
- ▶ Safe monitoring options for any application
- ▶ Simple connection
- ▶ Integrated evaluation
- ▶ Feedback loop connection
- ▶ PL e/category 4 according to EN ISO 13849-1
- ▶ SIL 3 according to EN IEC 62061

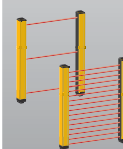
LCA

4
Master/slave



LCA 4

Master/slave



LCA 4
Master/slave

Light curtains LCA-4TR-M-30-... (Master, 30 mm)



- ▶ **Master device**
- ▶ **Resolution 30 mm**
- ▶ **Protective function: hand protection**
- ▶ **Range 12 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 43
- ▶ Accessories and spare parts see p. 54
- ▶ Cascading: connection cable between master and slaves: max. 50 m

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-M-30-... 	Transmitter 2 x M12, 5-pin Receiver 1 x M12, 8-pin 1 x M12, 5-pin	30 mm	12 m	Depending on cascading. Formula, see operating instructions.	260	156597 LCA-4TR-M-30-260-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
					310	156598 LCA-4TR-M-30-310-AP	
					460	156599 LCA-4TR-M-30-460-AP	
					610	156600 LCA-4TR-M-30-610-AP	
					760	156601 LCA-4TR-M-30-760-AP	
					910	156602 LCA-4TR-M-30-910-AP	
					1060	156603 LCA-4TR-M-30-1060-AP	
					1210	156604 LCA-4TR-M-30-1210-AP	

Dimension drawing

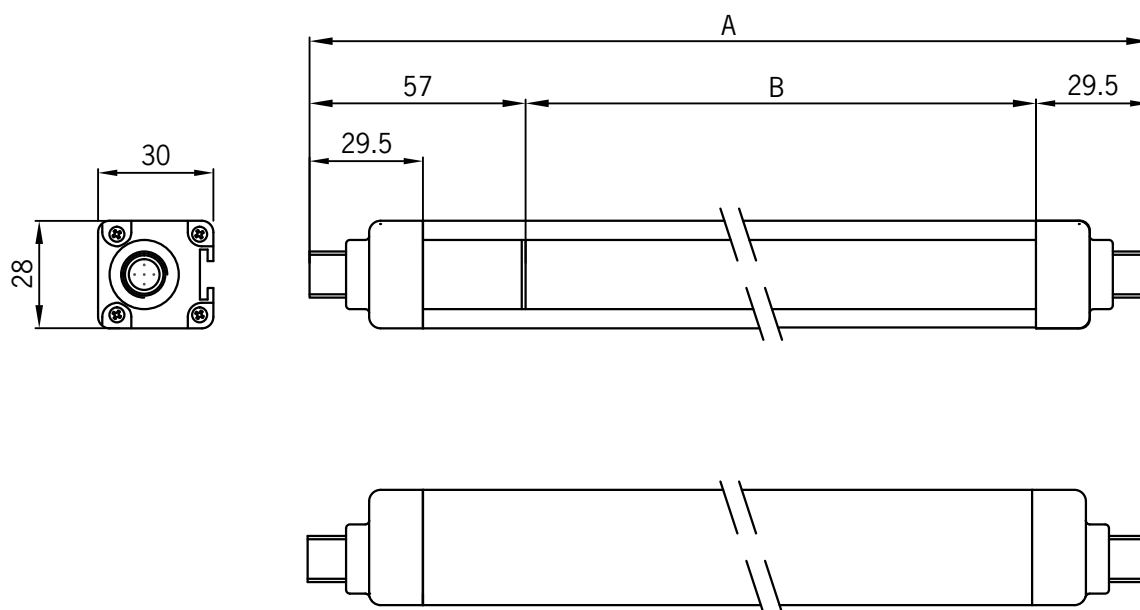


Table 10: Dimensions transmitter and receiver

Height	Model							
	260	310	460	610	760	910	1060	1210
A (master)	336	386	536	686	836	986	1136	1286
B*	250	300	450	600	750	900	1050	1200
Mounting	2 holders AM-OS-B-A1 with 2 inserts						3 holders AM-OS-B-A1 with 3 inserts	

B* = Distance display label to protective cap

Light curtains LCA-4TR-M-14-... (Master, 14 mm)



- ▶ **Master device**
- ▶ **Resolution 14 mm**
- ▶ **Protective function: finger protection**
- ▶ **Range 6 m**
- ▶ **Installation material is included with the product**

Details

- ▶ Degree of protection IP65 and IP67
- ▶ Two safety outputs (OSSD)
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1**
2 semiconductor outputs, p-switching, short circuit-proof, suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 45
- ▶ Accessories and spare parts see p. 54
- ▶ Cascading: connection cable between master and slaves: max. 50 m

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-M-14-... 	Transmitter 2 x M12, 5-pin Receiver 1 x M12, 8-pin 1 x M12, 5-pin	14 mm	6 m	Depending on cascading. Formula, see operating instructions.	310	156590 LCA-4TR-M-14-310-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
					460	156591 LCA-4TR-M-14-460-AP	
					610	156592 LCA-4TR-M-14-610-AP	
					760	156593 LCA-4TR-M-14-760-AP	
					910	156594 LCA-4TR-M-14-910-AP	
					1060	156595 LCA-4TR-M-14-1060-AP	
					1210	156596 LCA-4TR-M-14-1210-AP	

Dimension drawing

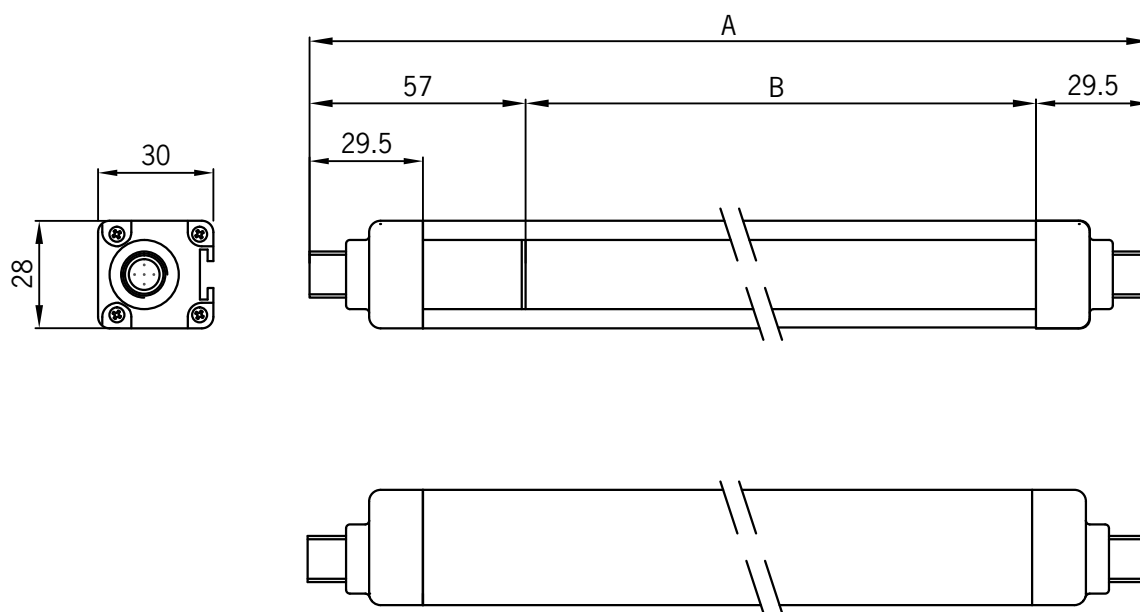


Table 11: Dimensions transmitter and receiver

Height	Model						
	310	460	610	760	910	1060	1210
A (master)	386	536	686	836	986	1136	1286
B*	300	450	600	750	900	1050	1200
Mounting	2 holders AM-OS-B-A1 with 2 inserts						3 holders AM-OS-B-A1 with 3 inserts

B* = Distance display label to protective cap

Light curtains LCA-4TR-S1-30-... (Slave 1, 30 mm)

**Details**

- ▶ Degree of protection IP65 and IP67
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

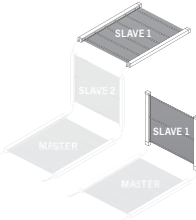
- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1** suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 47
- ▶ Accessories and spare parts see p. 54
- ▶ Cascading: connection cable between master and slaves: max. 50 m

- ▶ **Slave 1 device**
- ▶ **Resolution 30 mm**
- ▶ **Protective function: hand protection**
- ▶ **Range 12 m**
- ▶ **Installation material is included with the product**

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-S1-30-... 	Transmitter 1 x M12, 5-pin Receiver 1 x M12, 5-pin	30 mm	12 m	Depending on cascading. Formula, see operating instructions.	160	156613 LCA-4TR-S1-30-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
					310	156614 LCA-4TR-S1-30-310-AP	
					460	156615 LCA-4TR-S1-30-460-AP	
					610	156616 LCA-4TR-S1-30-610-AP	
					760	156617 LCA-4TR-S1-30-760-AP	
					910	156618 LCA-4TR-S1-30-910-AP	
					1060	156619 LCA-4TR-S1-30-1060-AP	
					1210	156620 LCA-4TR-S1-30-1210-AP	

Dimension drawing

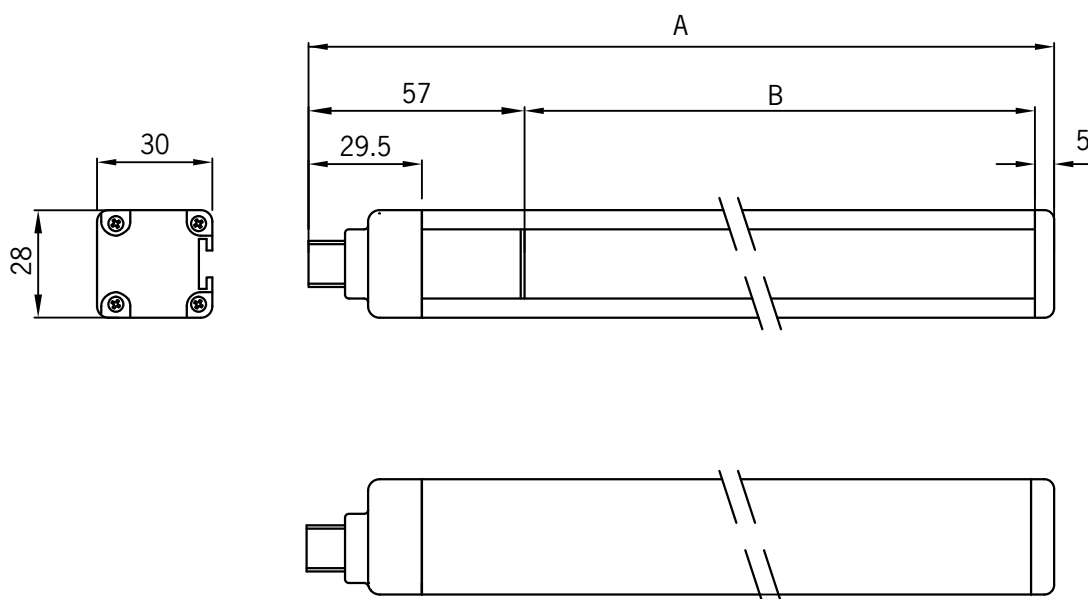


Table 12: Dimensions transmitter and receiver

Height	Model							
	160	310	460	610	760	910	1060	1210
A (slave 1)	213	363	513	663	813	963	1113	1263
B*	150	300	450	600	750	900	1050	1200
Mounting	2 holders AM-OS-B-A1 with 2 inserts						3 holders AM-OS-B-A1 with 3 inserts	

B* = Distance display label to protective cap

Light curtains LCA-4TR-S1-14-... (Slave 1, 14 mm)



Details

- ▶ Degree of protection IP65 and IP67
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1** suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

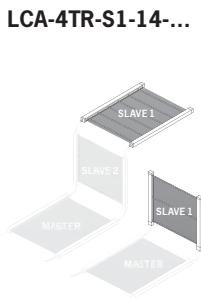
Further information

- ▶ Dimension drawings see p. 49
- ▶ Accessories and spare parts see p. 54
- ▶ Cascading: connection cable between master and slaves: max. 50 m

- ▶ **Slave 1 device**
- ▶ **Resolution 14 mm**
- ▶ **Protective function: finger protection**
- ▶ **Range 6 m**
- ▶ **Installation material is included with the product**

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-S1-14-...	Transmitter 1 x M12, 5-pin Receiver 1 x M12, 5-pin	14 mm	6 m	Depending on cascading. Formula, see operating instructions.	160	156605 LCA-4TR-S1-14-160-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
					310	156606 LCA-4TR-S1-14-310-AP	
					460	156607 LCA-4TR-S1-14-460-AP	
					610	156608 LCA-4TR-S1-14-610-AP	
					760	156609 LCA-4TR-S1-14-760-AP	
					910	156610 LCA-4TR-S1-14-910-AP	
					1060	156611 LCA-4TR-S1-14-1060-AP	
LCA-4TR-S1-14-...	Transmitter 1 x M12, 5-pin Receiver 1 x M12, 5-pin	14 mm	6 m	Depending on cascading. Formula, see operating instructions.	1210	156612 LCA-4TR-S1-14-1210-AP	



Dimension drawing

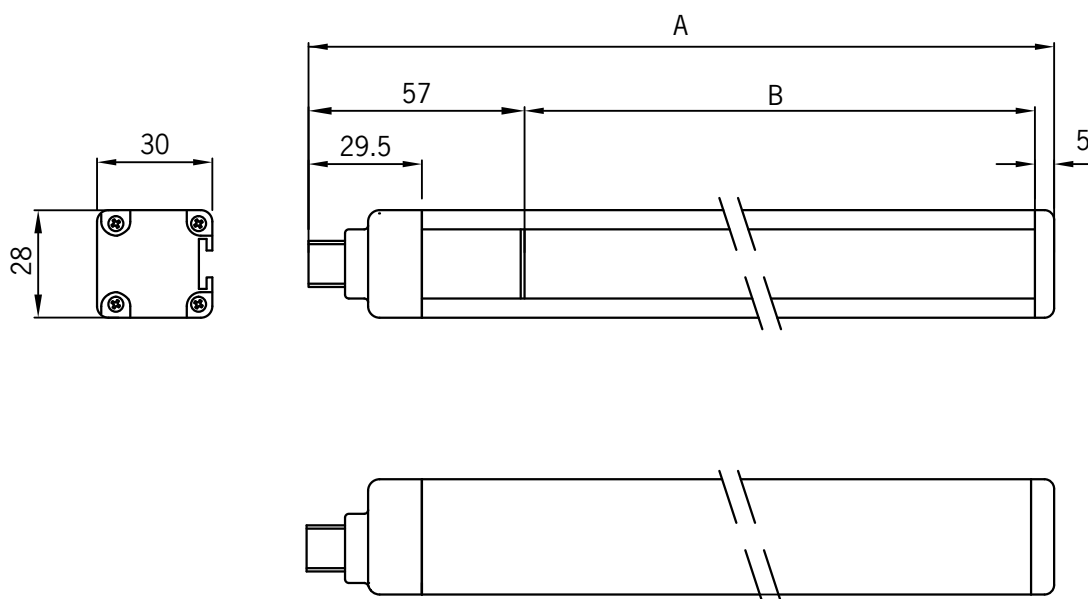


Table 13: Dimensions transmitter and receiver

Height	Model							
	160	310	460	610	760	910	1060	1210
A (slave 1)	213	363	513	663	813	963	1113	1263
B*	150	300	450	600	750	900	1050	1200
Mounting	2 holders AM-OS-B-A1 with 2 inserts						3 holders AM-OS-B-A1 with 3 inserts	

B* = Distance display label to protective cap

Light curtains LCA-4TR-S2-30-... (Slave 2, 30 mm)



Details

- ▶ Degree of protection IP65 and IP67
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

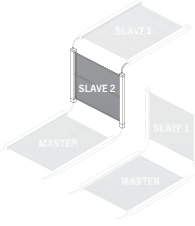
- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1** suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 51
- ▶ Accessories and spare parts see p. 54
- ▶ Cascading: connection cable between master and slaves: max. 50 m

- ▶ Slave 2 device
- ▶ Resolution 30 mm
- ▶ Protective function: hand protection
- ▶ Range 12 m
- ▶ Installation material is included with the product

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-S2-30-... 	Transmitter 2 x M12, 5-pin Receiver 2 x M12, 5-pin	30 mm	12 m	Depending on cascading. Formula, see operating instructions.	310	156628 LCA-4TR-S2-30-310-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
					460	156629 LCA-4TR-S2-30-460-AP	
					610	156630 LCA-4TR-S2-30-610-AP	
					760	156631 LCA-4TR-S2-30-760-AP	
					910	156632 LCA-4TR-S2-30-910-AP	
					1060	156633 LCA-4TR-S2-30-1060-AP	
					1210	156634 LCA-4TR-S2-30-1210-AP	

Dimension drawing

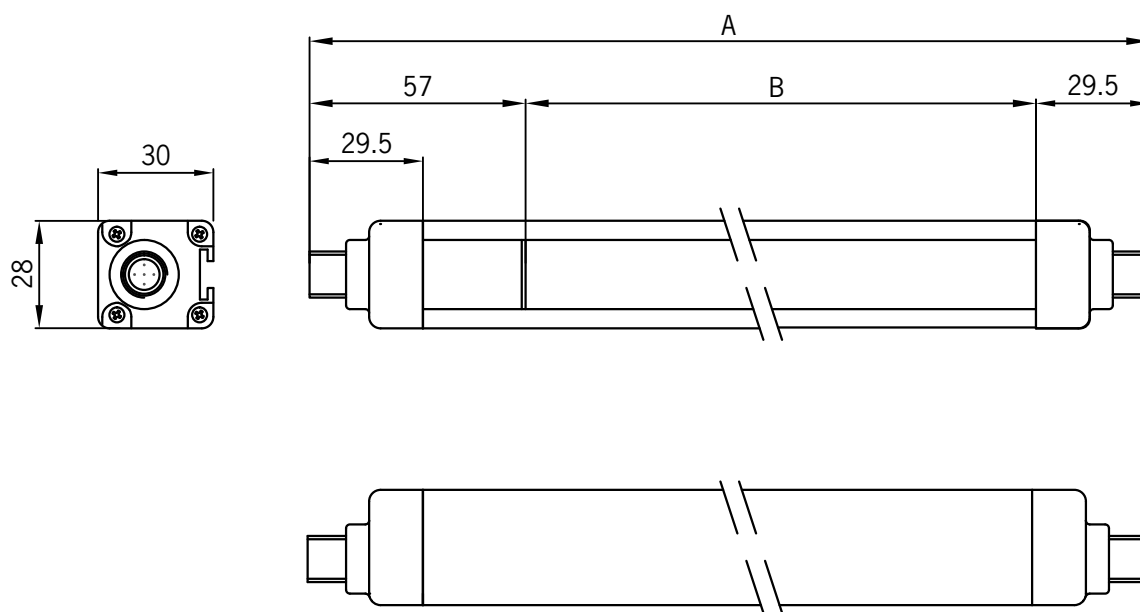


Table 14: Dimensions transmitter and receiver

Height	Model						
	310	460	610	760	910	1060	1210
A (slave 2)	386	536	686	836	986	1136	1286
B*	300	450	600	750	900	1050	1200
Mounting	2 holders AM-OS-B-A1 with 2 inserts						3 holders AM-OS-B-A1 with 3 inserts

B* = Distance display label to protective cap

Light curtains LCA-4TR-S2-14-... (Slave 2, 14 mm)



Details

- ▶ Degree of protection IP65 and IP67
- ▶ Plug connector M12
- ▶ Profile size 28 x 30 mm

Notice

- ▶ The operation mode is dependent on the results of the risk analysis.
- ▶ **Category according to EN ISO 13849-1** suitable for:
PL e/category 4 according to EN ISO 13849-1
Each safety path is independently safe.
- ▶ ESPE type 4 according to DIN EN 61496-1

Further information

- ▶ Dimension drawings see p. 53
- ▶ Accessories and spare parts see p. 54
- ▶ Cascading: connection cable between master and slaves: max. 50 m

- ▶ Slave 2 device
- ▶ Resolution 14 mm
- ▶ Protective function: finger protection
- ▶ Range 6 m
- ▶ Installation material is included with the product

Ordering table

Series	Plug connector	Resolution/ beams	Max. range	Reaction time [ms]	Protective field height [mm]	Order No./item	
LCA-4TR-S2-14-... 	Transmitter 2 x M12, 5-pin Receiver 2 x M12, 5-pin	14 mm	6 m	Depending on cascading. Formula, see operating instructions.	310	156621 LCA-4TR-S2-14-310-AP	For detailed information, enter the order number for the product in the search box at www.euchner.com .
					460	156622 LCA-4TR-S2-14-460-AP	
					610	156623 LCA-4TR-S2-14-610-AP	
					760	156624 LCA-4TR-S2-14-760-AP	
					910	156625 LCA-4TR-S2-14-910-AP	
					1060	156626 LCA-4TR-S2-14-1060-AP	
					1210	156627 LCA-4TR-S2-14-1210-AP	

Dimension drawing

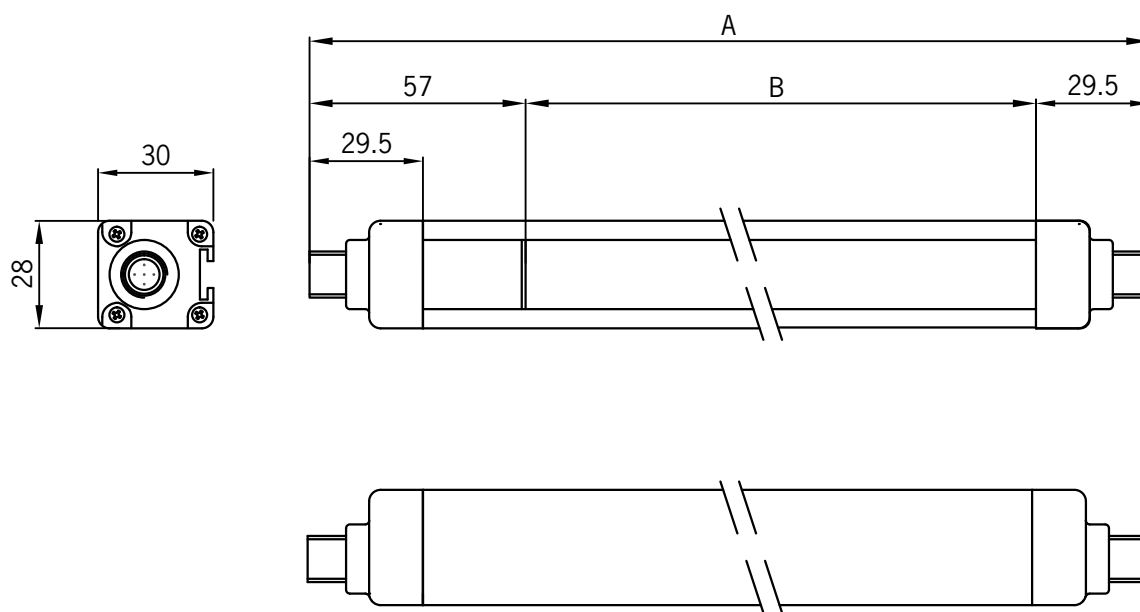


Table 15: Dimensions transmitter and receiver

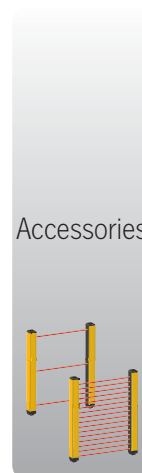
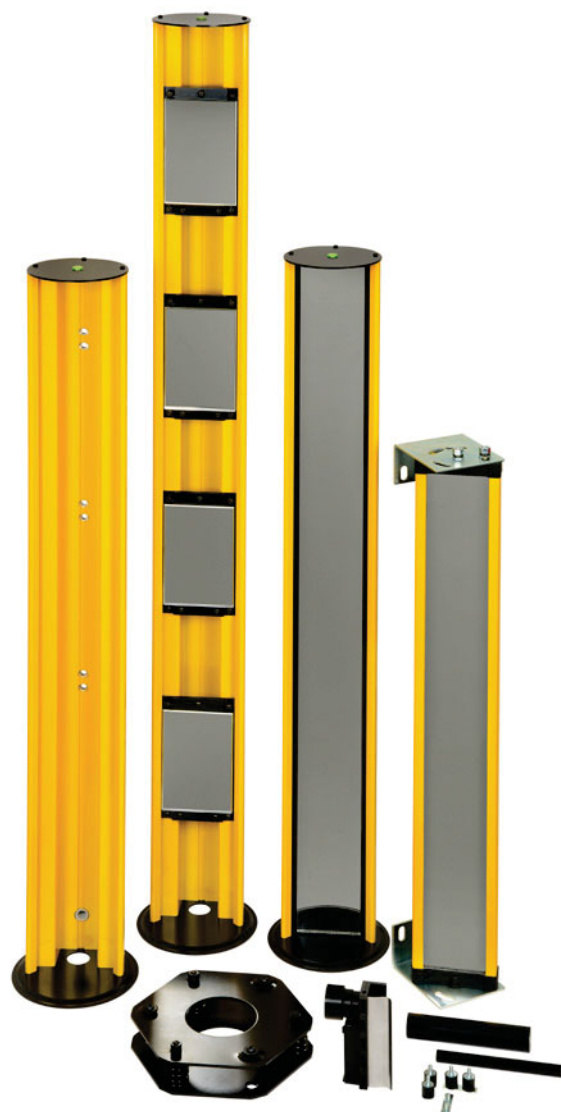
Height	310	460	610	760	Model		
A (slave 2)	386	536	686	836	910	1060	1210
B*	300	450	600	750	900	1050	1200
Mounting	2 holders AM-OS-B-A1 with 2 inserts						3 holders AM-OS-B-A1 with 3 inserts

B* = Distance display label to protective cap

»Exploit all the advantages
– with well thought-out
original accessories from
EUCHNER.«

- ▶ Connection material – connect safely and easily, no long search for cables and plug connectors.
- ▶ Fixing material – safe and easy installation for many fastening situations.
- ▶ Deflection mirrors and mounting pillars – enlargement of the protective field and protection of the device
- ▶ Laser alignment aid and test rods – straightforward setup and testing of the protective function.

Accessories



Connection material

M12

8
pin5
pin

PVC

PUR

Connection cables with plug connectors

Version		Order No./item	
M12 5 pin PVC	Connection cable with female plug, flying lead, 5 x 0.34 mm ²	5m 100183 C-M12F05-05X034PV05,0-MA-100183	For detailed information, enter the order number for the product in the search box at www.euchner.com .
		10m 100184 C-M12F05-05X034PV10,0-MA-100184	
		20m 100185 C-M12F05-05X034PV20,0-MA-100185	
		50m 156064 C-M12F05-05X034PV50,0-MA-156064	
	Extension, plug connectors at both ends for connection to decentralized peripheral equipment	5m 100180 C-M12F05-05X034PV05,0-M12M05-100180	
		10m 100181 C-M12F05-05X034PV10,0-M12M05-100181	
		20m 100182 C-M12F05-05X034PV20,0-M12M05-100182	
M12 5 pin PUR	Connection cable with female plug, flying lead, 5 x 0.34 mm ²	5m 113620 C-M12F05-05X034PU05,0-MA-113620	
		10m 113640 C-M12F05-05X034PU10,0-MA-113640	
		20m 113682 C-M12F05-05X034PU20,0-MA-113682	
		30m 122784 C-M12F05-05X034PU30,0-MA-113682	
	Extension, plug connectors at both ends for connection to decentralized peripheral equipment	5m 119932 C-M12F05-05X034PU05,0-M12M05-119932	
		10m 119947 C-M12F05-05X034PU10,0-M12M05-119947	
		20m 119971 C-M12F05-05X034PU20,0-M12M05-119971	
M12 8 pin PVC	Connection cable with female plug, flying lead, 8 x 0.25 mm ²	5m 100177 C-M12F08-08X025PV05,0-MA-100177	
		10m 100178 C-M12F08-08X025PV10,0-MA-100178	
		20m 100179 C-M12F08-08X025PV20,0-MA-100179	
		30m 115116 C-M12F08-08X025PV30,0-MA-115116	

Connection cables with plug connectors

Version		Order No./item	 For detailed information, enter the order number for the product in the search box at www.euchner.com .
M12 8 pin PUR	5m	115112 C-M12F08-08X025PU05,0-MA-115112	
	10m	115113 C-M12F08-08X025PU10,0-MA-115113	
	20m	115114 C-M12F08-08X025PU20,0-MA-115114	
	30m	115257 C-M12F08-08X025PU30,0-MA-115257	
Connection cable with female plug, flying lead, 8 x 0.25 mm ²			

Screened connection cables with plug connector

Version		Order No./item	 For detailed information, enter the order number for the product in the search box at www.euchner.com .
M12 8 pin PVC	5m	077751 C-M12F08-08X025PV05,0-MW-077751	
	10m	077752 C-M12F08-08X025PV10,0-MW-077752	
	15m	077753 C-M12F08-08X025PV15,0-MW-077753	
	20m	077871 C-M12F08-08X025PV20,0-MW-077871	
	25m	077872 C-M12F08-08X025PV25,0-MW-077872	
	50m	077873 C-M12F08-08X025PV50,0-MW-077873	
Connection cable with female plug, screened ¹⁾ , 8 x 0.25 mm ²			

1) The screen on the connection cable is connected to the plug housing.

Connection cables for cascading (master/slave 1/slave 2)

Version		Order No./item	 For detailed information, enter the order number for the product in the search box at www.euchner.com .
M12 5 pin PVC	0,3m	156926 C-M12F05-05X034PV0,30-M12F05	
	3m	156927 C-M12F05-05X034PV03,0-M12F05	
	5m	156928 C-M12F05-05X034PV05,0-M12F05	
	10m	156929 C-M12F05-05X034PV10,0-M12F05	
	25m	156930 C-M12F05-05X034PV25,0-M12F05	
Connection cable M12, straight, 5-pin, female-female			

Mounting accessories

Mounting pillars

Designation	Version/usage	Order No./item	
Socket for mounting pillars	Spring-mounted, height 55 mm	156884 AM-OS-P-AA	For detailed information, enter the order number for the product in the search box at www.euchner.com .
	Height 34 mm	156885 AM-OS-P-AB	
Mounting pillar	For protective field heights from 160 - 610 mm or for 2 beam light grids	156886 AM-OS-C-A1-1000	
	For protective field heights from 760 - 1060 mm or 3 - 4 beam light grids	156887 AM-OS-C-A1-1200	
	For protective field heights from 1210 to 1360 mm	156888 AM-OS-C-A1-1670	
	For protective field heights from 1510 to 1660 mm	156889 AM-OS-C-A1-1970	
Mounting pillar with cable gland PG11	For protective field heights from 160 - 610 mm or for 2 beam light grids	156890 AM-OS-C-A1-M-1000	
	For protective field heights from 760 - 1060 mm or for 3 - 4 beam light grids	156891 AM-OS-C-A1-M-1200	
	For protective field heights from 1210 to 1360 mm	156892 AM-OS-C-A1-M-1670	
	For protective field heights from 1510 to 1660 mm	156893 AM-OS-C-A1-M-1970	
4 x vibration damper	For protective field height 160 mm	156916 AM-OS-D-V04	
8 x vibration damper	For protective field heights from 310 - 1060 mm	156917 AM-OS-D-V08	
12 x vibration damper	Protective field heights 1210 - 1810 mm or 2 - 4 beam light grids	156918 AM-OS-D-V12	
4 x adjustable holder	For protective field heights up to 1210 mm	156919 AM-OS-B-A1-V04	
6 x adjustable holder	For protective field heights from 1210 mm	156920 AM-OS-B-A1-V06	
4 x adjustable holder (180°)	Can be rotated by 180°	156921 AM-OS-B-A2-V04	

Function expansions

Designation	Version/usage	Order No./item	
Mounting pillar with deflection mirror	For protective field heights from 160 - 610 mm or for 2 beam light grids	156894 AE-OS-SC-1000	For detailed information, enter the order number for the product in the search box at www.euchner.com .
	For protective field heights from 760 - 910 mm or for 3 beam light grids	156895 AE-OS-SC-1200	
	For protective field heights from 760 - 910 mm or for 4 beam light grids	156896 AE-OS-SC-1330	
	For protective field heights from 1060 to 1360 mm	156897 AE-OS-SC-1670	
	For protective field heights from 1510 to 1660 mm	156898 AE-OS-SC-1970	
Mounting pillar with 2 deflection mirrors	For light grid heights with 2 beams	156899 AE-OS-SC-2B	
Mounting pillar with 3 deflection mirrors	For light grid heights with 3 beams	156900 AE-OS-SC-3B	
Mounting pillar with 4 deflection mirrors	For light grid heights with 4 beams	156901 AE-OS-SC-4B	
Deflection mirror	For protective field height 160 mm	156902 AE-OS-S-160	
	For protective field height 230 mm	156903 AE-OS-S-230	
	For protective field height 310 mm	156904 AE-OS-S-310	
	For protective field height 460 mm	156905 AE-OS-S-460	
	For protective field height 610 mm or for 2 beam light grids	156906 AE-OS-S-610	
	For protective field height 760 mm	156907 AE-OS-S-760	
	For protective field height 910 mm or for 3 beam light grids	156908 AE-OS-S-910	
	For protective field height 1060 mm or for 4 beam light grids	156909 AE-OS-S-1060	
	For protective field height 1210 mm	156910 AE-OS-S-1210	
	For protective field height 1360 mm	156911 AE-OS-S-1360	
	For protective field height 1510 mm	156912 AE-OS-S-1510	
	For protective field height 1660 mm	156913 AE-OS-S-1660	
	For protective field height 1810 mm	156914 AE-OS-S-1810	

LCA

Miscellaneous accessories

Designation	Version/usage	Order No./item	
Laser alignment aid	For light curtains/light grids LCA	156915 AY-OS-LSR	For detailed information, enter the order number for the product in the search box at www.euchner.com .
Test rod Ø 14 mm	For light curtains with resolution 14 mm	156922 AY-OS-FTR-14	
Test rod Ø 30 mm	For light curtains with resolution 30 mm	156923 AY-OS-FTR-30	
Test rod Ø 40 mm	For light curtains with resolution 40 mm	156924 AY-OS-FTR-40	
Test rod Ø 50 mm	For light curtains with resolution 50 mm	156925 AY-OS-FTR-50	

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Representatives

International

Austria

EUCHNER GmbH
Aumühlweg 17-19/Halle 1C
2544 Leobersdorf
Tel. +43 720 010 200
Fax +43 720 010 200-20
info@euchner.at

Benelux

EUCHNER (BENELUX) BV
Visschersbuurt 23
3356 AE Papendrecht
Tel. +31 78 615-4766
Fax +31 78 615-4311
info@euchner.nl

Brazil

EUCHNER Com.Comp.
Eletronicos Ltda.
Av. Prof. Luiz Ignácio Anhaia Mello,
no. 4387
Vila Graciosa
São Paulo - SP - Brasil
CEP 03295-000
Tel. +55 11 29182200
Fax +55 11 23010613
euchner@euchner.com.br

Canada

EUCHNER Canada Inc.
2105 Fasan Drive
Oldcastle, ON NOR 1L0
Tel. +1 519 800-8397
Fax +1 519 737-0314
sales@euchner.ca

China

EUCHNER (Shanghai)
Trading Co., Ltd.
No. 15 building,
No. 68 Zhongchuang Road,
Songjiang
Shanghai, 201613, P.R.C
Tel. +86 21 5774-7090
Fax +86 21 5774-7599
info@euchner.com.cn

Czech Republic

EUCHNER electric s.r.o.
Trnkova 3069/117h
628 00 Brno
Tel. +420 533 443-150
Fax +420 533 443-153
info@euchner.cz

Denmark

Duelco A/S
Systemvej 8 - 10
9200 Aalborg SV
Tel. +45 7010 1007
Fax +45 7010 1008
info@duelco.dk

Finland

Sähkölehto Oy
Holkkitie 14
00880 Helsinki
Tel. +358 9 7746420
office@sahkolehto.fi

France

EUCHNER France S.A.R.L.
Parc d'Affaires des Bellevues
Allée Rosa Luxembourg
Bâtiment le Colorado
95610 ERAGNY sur OISE
Tel. +33 1 3909-9090
Fax +33 1 3909-9099
info@euchner.fr

Hungary

EUCHNER Magyarország Kft.
FSD Park 2.
2045 Törökbálint
Tel. +36 1 919 0855
Fax +36 1 919 0857
info@euchner.hu

India

EUCHNER (India) Pvt. Ltd.
401, Bremen Business Center,
City Survey No. 2562,
University Road
Aundh, Pune - 411007
Tel. +91 20 64016384
Fax +91 20 25885148
info@euchner.in

Israel

Ilan & Gavish Automation Service Ltd.
26 Shenkar St. Qiryat Arie 49513
P.O. Box 10118
Petach Tikva 49001
Tel. +972 3 9221824
Fax +972 3 9240761
mail@ilan-gavish.com

Italy

TRITECNICA SpA
Viale Lazio 26
20135 Milano
Tel. +39 02 541941
Fax +39 02 55010474
info@tritecnica.it

Japan

EUCHNER Co., Ltd.
1662-3 Komakiharashinden
Komaki-shi, Aichi-ken
485-0012, Japan
Tel. +81 568 42 0157
Fax +81 568 42 0159
info@euchner.jp

Korea

EUCHNER Korea Co., Ltd.
115 Gasan Digital 2 - Ro
(Gasan-dong, Daeryung
Technotown 3rd Rm 810)
153 - 803 Kumchon-Gu, Seoul
Tel. +82 2 2107-3500
Fax +82 2 2107-3999
info@euchner.co.kr

Mexico

EUCHNER México S de RL de CV
Conjunto Industrial PK Co.
Carretera Estatal 431 km. 1+300
Ejido El Colorado, El Marqués
76246 Querétaro, México
Tel. +52 442 402 1485
Fax +52 442 402 1486
info@euchner.mx

Poland

EUCHNER Sp. z o.o.
Kraśnińskiego 29
40-019 Katowice
Tel. +48 32 252 20 09
Fax +48 32 252 20 13
info@euchner.pl

Portugal

PAM Servicos Tecnicos Industriais Lda.
Rua de Timor - Pavilhao 2A
Zona Industrial da Abelheira
4785-123 Trofa
Tel. +351 252 418431
Fax +351 252 494739
pam@mail.telepac.pt

Republic of South Africa

RUBICON
ELECTRICAL DISTRIBUTORS
4 Reith Street, Sidwell
6061 Port Elizabeth
Tel. +27 41 451-4359
Fax +27 41 451-1296
sales@rubiconelectrical.com

Romania

First Electric SRL
Str. Ritmului Nr. 1 Bis
Ap. 2, Sector 2
021675 Bucuresti
Tel. +40 21 2526218
Fax +40 21 3113193
office@firstelectric.ro

Singapore

BM Safety Singapore Pte Ltd.
Blk 3, Ang Mo Kio Industrial Park 2A
#05-06
Singapore 568050
Tel. +65 6744 8018
Fax +65 6744 1929
sales@bmsafety.com.sg

Slovakia

EUCHNER electric s.r.o.
Trnkova 3069/117h
628 00 Brno
Tel. +420 533 443-150
Fax +420 533 443-153
info@euchner.cz

Slovenia

SMM proizvodni sistemi d.o.o.
Jaskova 18
2000 Maribor
Tel. +386 2 4502326
Fax +386 2 4625160
franc.kit@smm.si

Spain

EUCHNER, S.L.
Gurutegi 12 - Local 1
Poligono Belartza
20018 San Sebastian
Tel. +34 943 316-760
Fax +34 943 316-405
info@euchner.es

Sweden

Censit AB
Box 331
33123 Värnamo
Tel. +46 370 691010
Fax +46 370 18888
info@censit.se

Switzerland

EUCHNER AG
Falknisstrasse 9a
7320 Sargans
Tel. +41 81 720-4590
Fax +41 81 720-4599
info@euchner.ch

Taiwan

Daybreak Int'l (Taiwan) Corp.
3F, No. 124, Chung-Cheng Road
Shihlin 11145, Taipei
Tel. +886 2 8866-1234
Fax +886 2 8866-1239
day111@ms23.hinet.net

Turkey

EUCHNER Endüstriyel Emniyet
Teknolojileri Ltd. Şti.
Hattat Bahattin Sok.
Ceylan Apt. No. 13/A
Göztepe Mah.
34730 Kadıköy / Istanbul
Tel. +90 216 359-5656
Fax +90 216 359-5660
info@euchner.com.tr

United Kingdom

EUCHNER (UK) Ltd.
Unit 2 Petre Drive,
Sheffield
South Yorkshire
S4 7PZ
Tel. +44 114 2560123
Fax +44 114 2425333
sales@euchner.co.uk

USA

EUCHNER USA Inc.
6723 Lyons Street
East Syracuse, NY 13057
Tel. +1 315 701-0315
Fax +1 315 701-0319
info@euchner-usa.com

EUCHNER USA Inc.
Detroit Office
130 Hampton Circle
Rochester Hills, MI 48307
Tel. +1 248 537-1092
Fax +1 248 537-1095
info@euchner-usa.com

Germany

Augsburg

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Julius-Spokojny-Weg 8
86153 Augsburg
Tel. +49 821 56786540
Fax +49 821 56786541
peter.klopper@euchner.de

Berlin

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Ulmenstraße 115a
12621 Berlin
Tel. +49 30 50508214
Fax +49 30 56582139
alexander.walz@euchner.de

Chemnitz

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Am Vogelherd 2
09627 Bobritzsch-Hilbersdorf
Tel. +49 37325 906000
Fax +49 37325 906004
jens.zehrtner@euchner.de

Düsseldorf

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Tippgarten 3
59427 Unna
Tel. +49 2308 9337284
Fax +49 2308 9337285
christian.schinke@euchner.de

Essen

Thomas Kreißl
fördern - steuern - regeln
Hackenbergstr. 8a
45133 Essen
Tel. +49 201 84266-0
Fax +49 201 84266-66
info@kreissl-essen.de

Freiburg

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Steige 5
79206 Breisach
Tel. +49 7664 403833
Fax +49 7664 403834
peter.seifert@euchner.de

Lübeck

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Am Stadtrand 13
23556 Lübeck
Tel. +49 451 88048371
Fax +49 451 88184364
martin.pape@euchner.de

Nürnberg

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Steiner Straße 22a
90522 Oberasbach
Tel. +49 911 6693829
Fax +49 911 6696722
ralf.paulus@euchner.de

Stuttgart

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Kohlhammerstraße 16
70771 Leinfelden-Echterdingen
Tel. +49 711 7597-0
Fax +49 711 7597-303
oliver.laier@euchner.de
uwe.kupka@euchner.de

Wiesbaden

EUCHNER GmbH + Co. KG
Ingenieur- und Vertriebsbüro
Adolfsallee 3
65185 Wiesbaden
Tel. +49 611 98817644
Fax +49 611 98895071
giancarlo.pasquesi@euchner.de



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Kohlhammerstraße 16
70771 Leinfelden-Echterdingen
Germany
Tel. +49 711 7597-0
Fax +49 711 753316
info@euchner.de
www.euchner.com

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