

ITEM 095793 CEM-A-LH10R-S3

Description	Technical data	Accessories	Downloads
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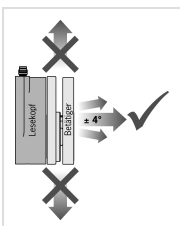


Features

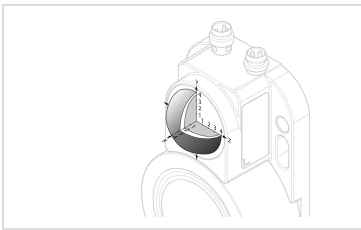
- › Read head with guard locking without guard lock monitoring
- › Locking force 1000 N
- › Without remanence
- › Up to category 4 according to EN ISO 13849-1

Without remanence

Read heads without remanence are de-magnetized when the solenoid is switched off. For this purpose the operating voltage U_B must always be applied.



- › Approach direction



► Typical operating distance

Note assured switch-off distance $s_{ar} = 20 \text{ mm}$ for internal component failure.

Safety outputs are reliably switched off.

Approvals



Mechanical values and environment

Material	Solenoid	Steel, nickel-plated
Housing material		Die-cast aluminum
Read head material		Plastic (PPS)
Weight	Net	0,9 kg
Ambient temperature		-25 ... 50 °C
Degree of protection		IP67
Mechanical life		
In case of use as door stop, and 1 Joule impact energy		1×10^6
Installation position		Any
Switching frequency	Read head	See operating instructions for the related evaluation unit [1]
	Solenoid	max.2 Hz
Connection		
X1, solenoid (yellow LED integrated in the plug)		Plug connector M8x1, 4-pin male (with snap-action / screw terminal)
X3, read head		Plug connector M8x1, 3-pin male (with snap-action / screw terminal)
X2, external LED		Plug connector M8x1, 4-pin female (with screw terminal)
Cable length		max.25 m
Guard locking principle		Open-circuit current principle
Locking force F		
(Not monitored, in axial direction) at $U_{CM} \geq 24V$		1000 N
Adhesive force		
due to remanence		0,7 N

Electrical connection ratings

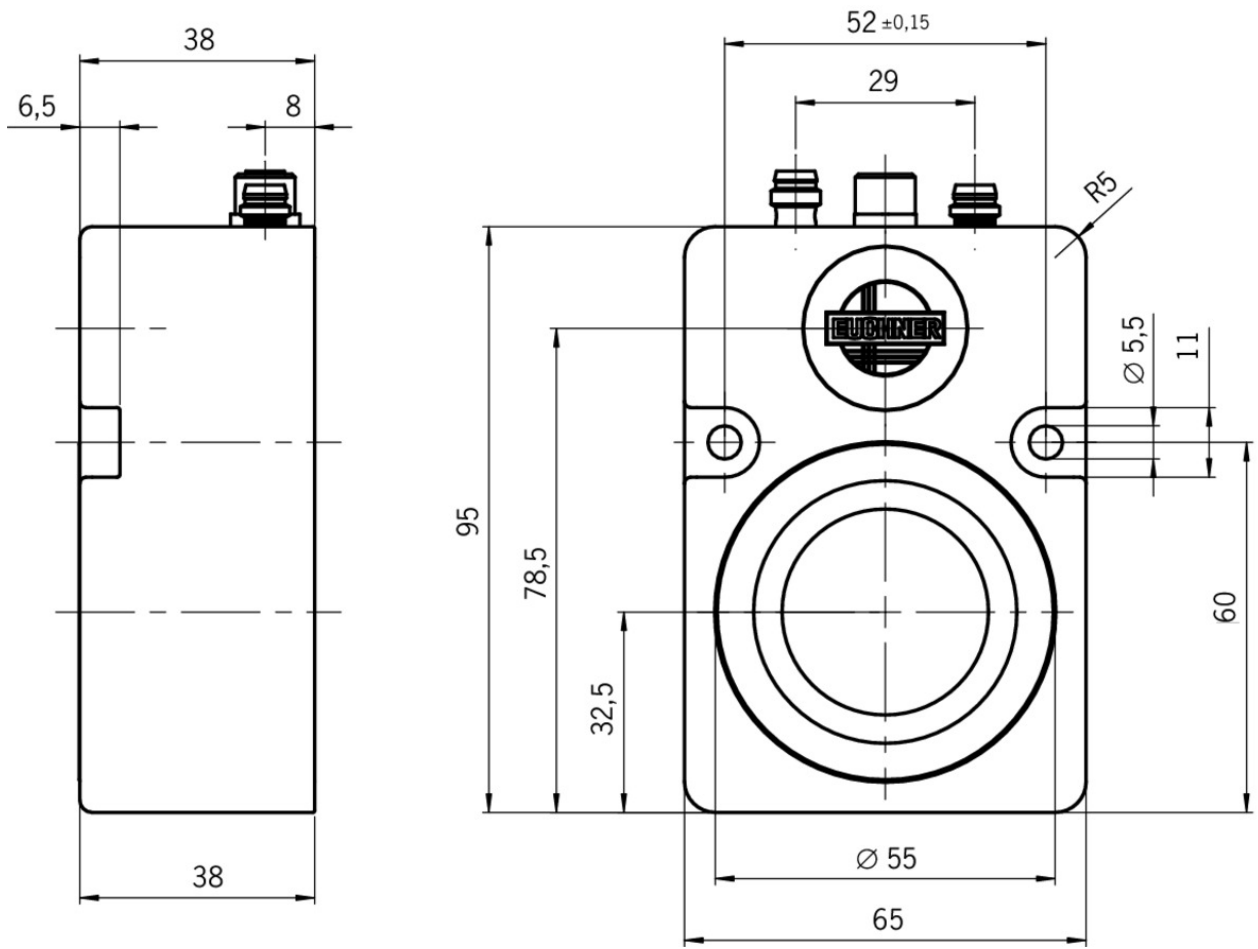
Operating voltage DC	U_B	24 V DC -15% ... 10%
	U_{CM}	24 V DC -15% ... 10%
Current consumption		
	On U_B at $U_{CM} \geq 0V$	12 mA
	On U_B at $U_{CM} \geq 24V$	225 mA
	On U_{CM} at 24V	15 mA
Power consumption		5,8 W
Solenoid duty cycle		100 %

Operating distance

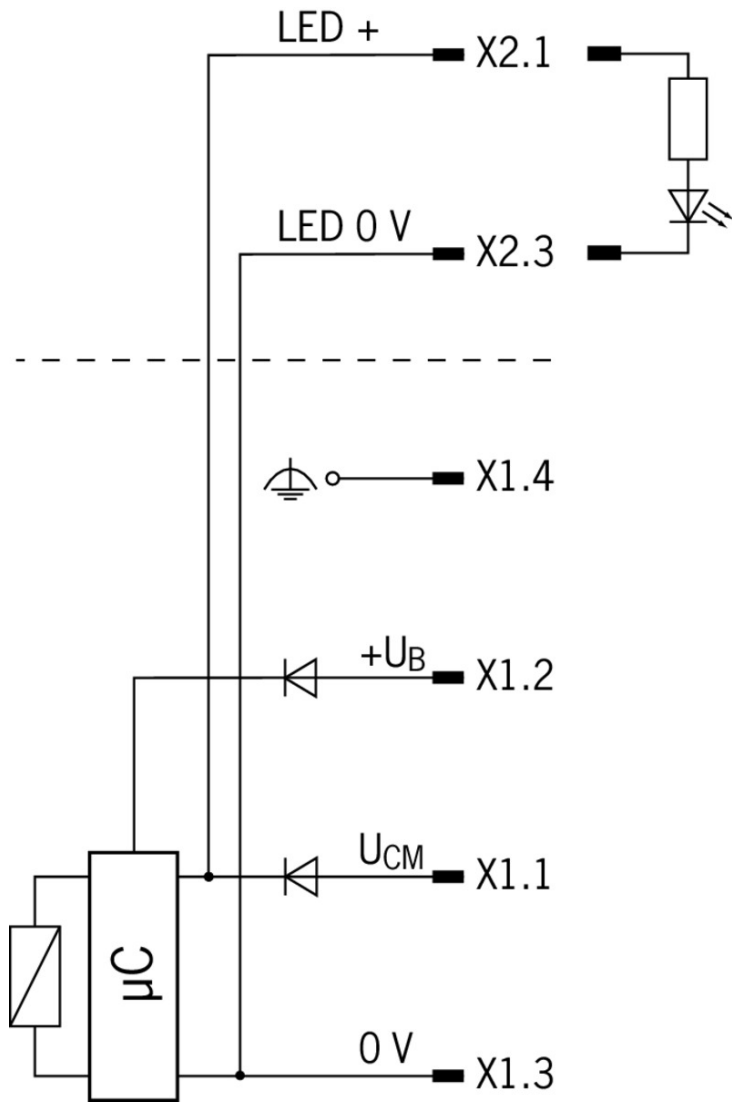
Switching hysteresis		
	With center offset $m=0$	0,7 mm [2]
Assured switch-off distance S_{ar}		max.20 mm [3]
Assured operating distance S_{a0}		
	With center offset $m=0$	min.2 mm [4]
Center offset		-2,5 ... +2,5 mm

[1, 2, 3, 4] In conjunction with evaluation unit CES-A-...B or CES-AZ-...B

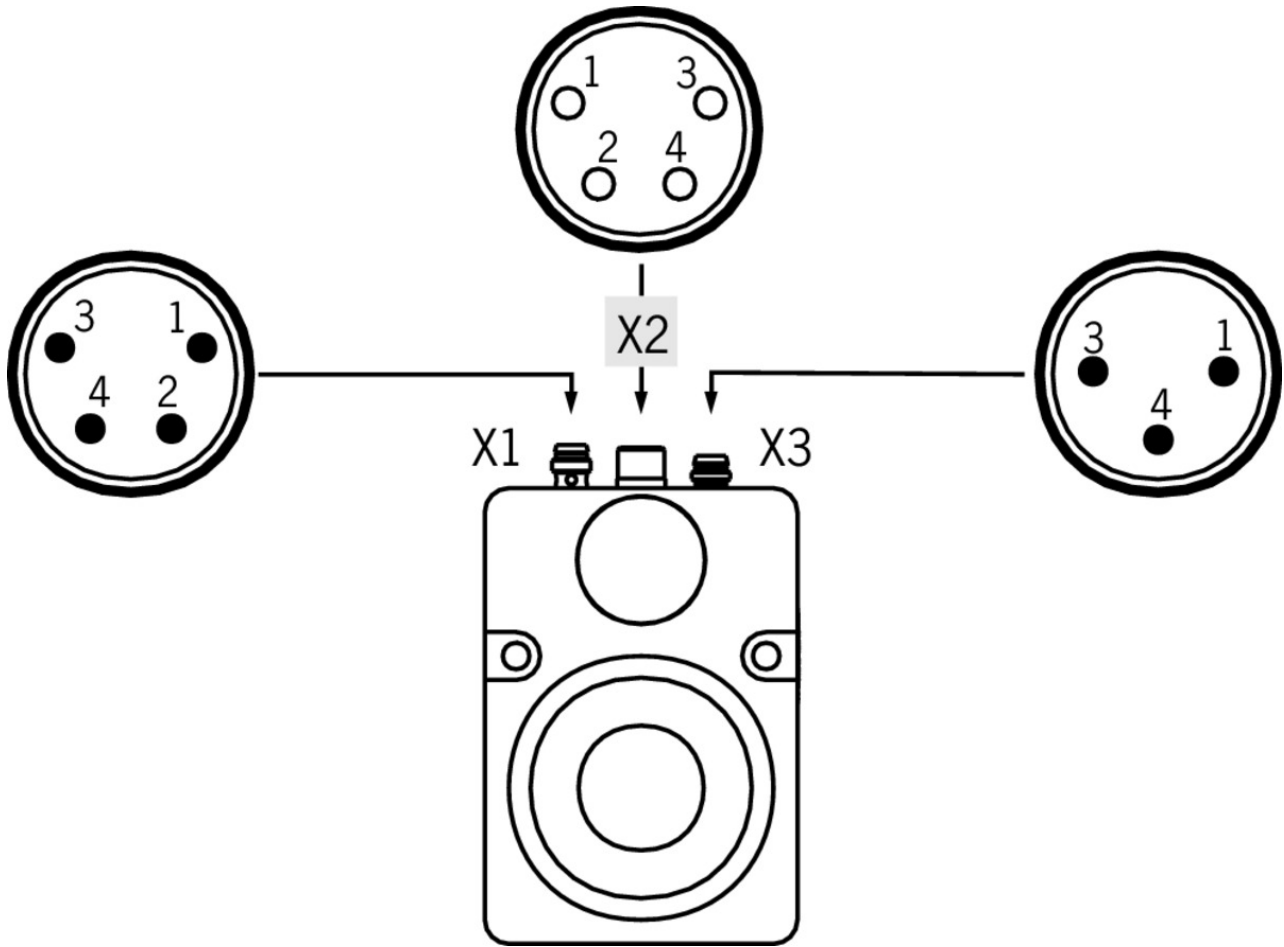
Dimension drawing



Wiring diagram



Circuit diagram connection solenoid operating voltage plug S1. A free-wheeling diode is already integrated into each CEM.



Legende

Solenoid operating voltage

X1.1 U_{CM}/DC 24 V

X1.2 $+U_B/DC$ 24 V

X1.3 0 V/GND

X1.4 Function earth

External LED indicator connection

X2.1 LED +

X2.2 -

X2.3 LED 0 V

X2.4 -

Evaluation unit CES

X3.1 Data line

X3.3 Data line

X3.4 SH (screen)

Connection material

- ▼ Connection cable with plug connector M8, 4-pin, 5m



088842 C-M08M04-04X025PV05,0-ES-088842

- ▼ Features

- › M8 female plug, 4-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 5 m
 - › With flying lead
-



088813 C-M08F04-04X025PV05,0-ES-088813

- ▼ Features

- › M8 female plug, 4-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 5 m
 - › With flying lead
-



116049 C-M08F04-04X034PU05,0-ES-116049

- ▼ Features

- › M8 female plug, 4-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 5 m
 - › With flying lead
-

- ▼ Connection cable with angled plug connector M8, 3-pin, 25m, angled



099998 C-M08F03-02X025PV25,0-ES-099998

- ▼ Features

- › M8 female plug, 3-pin
 - › Angled plug connector
 - › PVC cable
 - › Cable length 25 m
 - › With flying lead
-

- ▼ Connection cable with plug connector M8, 4-pin, 2m



088841 C-M08M04-04X025PV02,0-ES-088841

- ▼ Features

- › M8 female plug, 4-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 2 m
 - › With flying lead
-

- ▼ Connection cable with plug connector M8, 4-pin, 10m

088843 C-M08M04-04X025PV10,0-ES-088843



- ✓ Features
 - › M8 female plug, 4-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 10 m
 - › With flying lead
-



088814 C-M08F04-04X025PV10,0-ES-088814

- ✓ Features
 - › M8 female plug, 4-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 10 m
 - › With flying lead
-



116050 C-M08F04-04X034PU10,0-ES-116050

- ✓ Features
 - › M8 female plug, 4-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-

✓ Connection cable with plug connector M8, 4-pin, 15m



088844 C-M08M04-04X025PV15,0-ES-088844

- ✓ Features
 - › M8 female plug, 4-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 15 m
 - › With flying lead
-



088815 C-M08F04-04X025PV15,0-ES-088815

- ✓ Features
 - › M8 female plug, 4-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 15 m
 - › With flying lead
-

✓ Connection cable with angled plug connector M8, 4-pin, 10m



084703 C-M08F04-04X025PV10,0-ES-084703

- ✓ Features
 - › M8 female plug, 4-pin
 - › Angled plug connector
 - › PVC cable
 - › Cable length 10 m
 - › With flying lead
-

- ▼ Connection cable with plug connector M8, 4-pin, 25m



095035 C-M08F04-04X025PV25,0-ES-095035

▼ Features

- › M8 female plug, 4-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 25 m
 - › With flying lead
-

- ▼ Connection cable with angled plug connector M8, 3-pin, 10m



098590 C-M08F03-02X025PU10,0-ES-098590

▼ Features

- › M8 female plug, 3-pin
 - › Angled plug connector
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-



084701 C-M08F03-02X025PV10,0-ES-084701

▼ Features

- › M8 female plug, 3-pin
 - › Angled plug connector
 - › PVC cable
 - › Cable length 10 m
 - › With flying lead
-

- ▼ Connection cable with plug connector M8, 3-pin, 5m



084762 C-M08F03-02X025PU05,0-ES-084762

▼ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 5 m
 - › With flying lead
-

- ▼ Connection cable with plug connector M8, 3-pin, 25m



077717 C-M08F03-02X025PV25,0-ES-077717

▼ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 25 m
 - › With flying lead
-



084766 C-M08F03-02X025PU25,0-ES-084766

▼ Features

- › M8 female plug, 3-pin
- › Straight plug connector

- › PUR cable
 - › Cable length 25 m
 - › With flying lead
-

☑ Connection cable with plug connector M8, 3-pin, 20m



077716 C-M08F03-02X025PV20,0-ES-077716

☑ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 20 m
 - › With flying lead
-



084765 C-M08F03-02X025PU20,0-ES-084765

☑ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 20 m
 - › With flying lead
-

☑ Connection cable with plug connector M8, 3-pin, 10m



077767 C-M08F03-02X025PV10,0-ES-077767

☑ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 10 m
 - › With flying lead
-



084763 C-M08F03-02X025PU10,0-ES-084763

☑ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 10 m
 - › With flying lead
-

☑ Connection cable with plug connector M8, 3-pin, 3m



077935 C-M08F03-02X025PV03,0-ES-077935

☑ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 3 m
 - › With flying lead
-

☑ Connection cable with plug connector M8, 5m



077793 C-M08F03-02X025PV05,0-ES-077793

▼ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PVC cable
 - › Cable length 5 m
 - › With flying lead
-

▼ Connection cable with plug connector M8, 3-pin, 15m



084764 C-M08F03-02X025PU15,0-ES-084764

▼ Features

- › M8 female plug, 3-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 15 m
 - › With flying lead
-

▼ Connection cable with plug connector M8, 4-pin, 20m



116051 C-M08F04-04X034PU20,0-ES-116051

▼ Features

- › M8 female plug, 4-pin
 - › Straight plug connector
 - › PUR cable
 - › Cable length 20 m
 - › With flying lead
-

Actuator

▼ Actuator CEM-A-BH10



095175 CEM-A-BH10

▼ Features

- › Locking force 1000 N
 - › Two safety screws M5x16 included
-

Instructions









▼ Betriebsanleitung Leseköpfe/Betätiger CEM-A-...

Doc. no. **Version** **Language** **Download**

Betriebsanleitung Leseköpfe/Betätiger CEM-A-...	2114342	07-04/18		 1.3 MB
Operating Instructions Read Heads/Actuators CEM-A-...				
Manual de instrucciones Cabeza de lectura/actuador CEM-A-...				
Mode d'emploi Têtes de lecture/actionneurs CEM-A-...				
Istruzioni di impiego Testine di lettura/azionatori CEM-A-...				







Catalogs

- Transpondercodierte Sicherheitssysteme mit externer Auswertung Transponder-coded safety systems with external evaluation Sistemas de seguridad con codificación por transponder y evaluación externa Systèmes de sécurité à codage par transpondeur avec analyse externe

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Sistemas de seguridad con codificación por transponder y evaluación externa	139969	02-01/18		 3.0 MB
Transponder-coded safety systems with external evaluation	127597	02-01/18		 3.0 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	2077154	34-01/17	    	 0.5 MB

CAD data

CAD data for this item on TraceParts