

**ITEM 104051 CET1-AX-LRA-00-50X-SF**

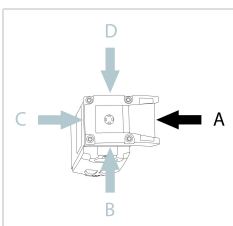
| Description | Technical data | Accessories | Downloads |
|-------------|----------------|-------------|-----------|
|-------------|----------------|-------------|-----------|



**Features**

- › Read head with guard locking
- › Locking force up to 6500 N
- › Up to category 4/PL e according to EN ISO 13849-1
- › With plug connector M12 (can be rotated by 360°)
- › 2 LEDs (1 freely configurable)
- › Approach direction A (default setting on delivery)

**Approach direction**



- › Figure  
Horizontal  
Can be adjusted in 90° steps

**Solenoid operating voltage**

› DC 24 V +10% -15%

## Guard locking type

**CET1 Closed-circuit current principle**, guard locking by spring force.  
Release by applying voltage to the guard locking solenoid.

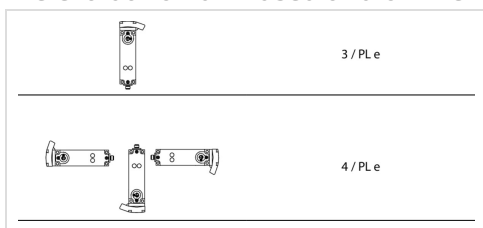
## LED function display

**LED rot** illuminates when the solenoid is energized

**LED grün** freely configurable

## Category according to EN ISO 13849-1

**Important:** The category in accordance with EN ISO 13849-1 is dependent on the evaluation unit used and on the installation position.



› Figure

## Notes

- › Special connection cables from EUCHNER are required for the connection. Please take into account in the order!
- › The device may be operated only in conjunction with the actuator CET-A-.... The actuator must be ordered separately.

## Auxiliary release

Is used for releasing the guard locking with the aid of a tool. The auxiliary release must be sealed to prevent tampering (for example with sealing lacquer).

## Approvals



## Mechanical values and environment

|                  |               |                   |
|------------------|---------------|-------------------|
| Housing material | Slide         | Stainless steel   |
|                  | Safety switch | Die-cast aluminum |
| Weight           | Net           | 1 kg              |

|                         |                   |                                  |
|-------------------------|-------------------|----------------------------------|
| Ambient temperature     | At $U_B = 24V$ DC | -20 ... 55 °C                    |
| Degree of protection    |                   | IP67 <b>[1]</b>                  |
| Mechanical life         |                   | $1 \times 10^6$                  |
| Installation position   |                   | Any <b>[2]</b>                   |
| Degree of freedom       | X                 | $\pm 5$ mm                       |
|                         | Y                 | $\pm 5$ mm                       |
|                         | Z                 | $\pm 4$ mm                       |
| Switching frequency     |                   | 1 Hz <b>[3]</b>                  |
| Connection              |                   | 1 plug connector M12, 8-pin      |
| Approach speed          |                   | 20 m/min                         |
| Guard locking principle |                   | Closed-circuit current principle |
| Locking force $F_{max}$ |                   | 6500 N                           |
| Locking force $F_{Zh}$  |                   | 5000 N                           |

### Electrical connection ratings

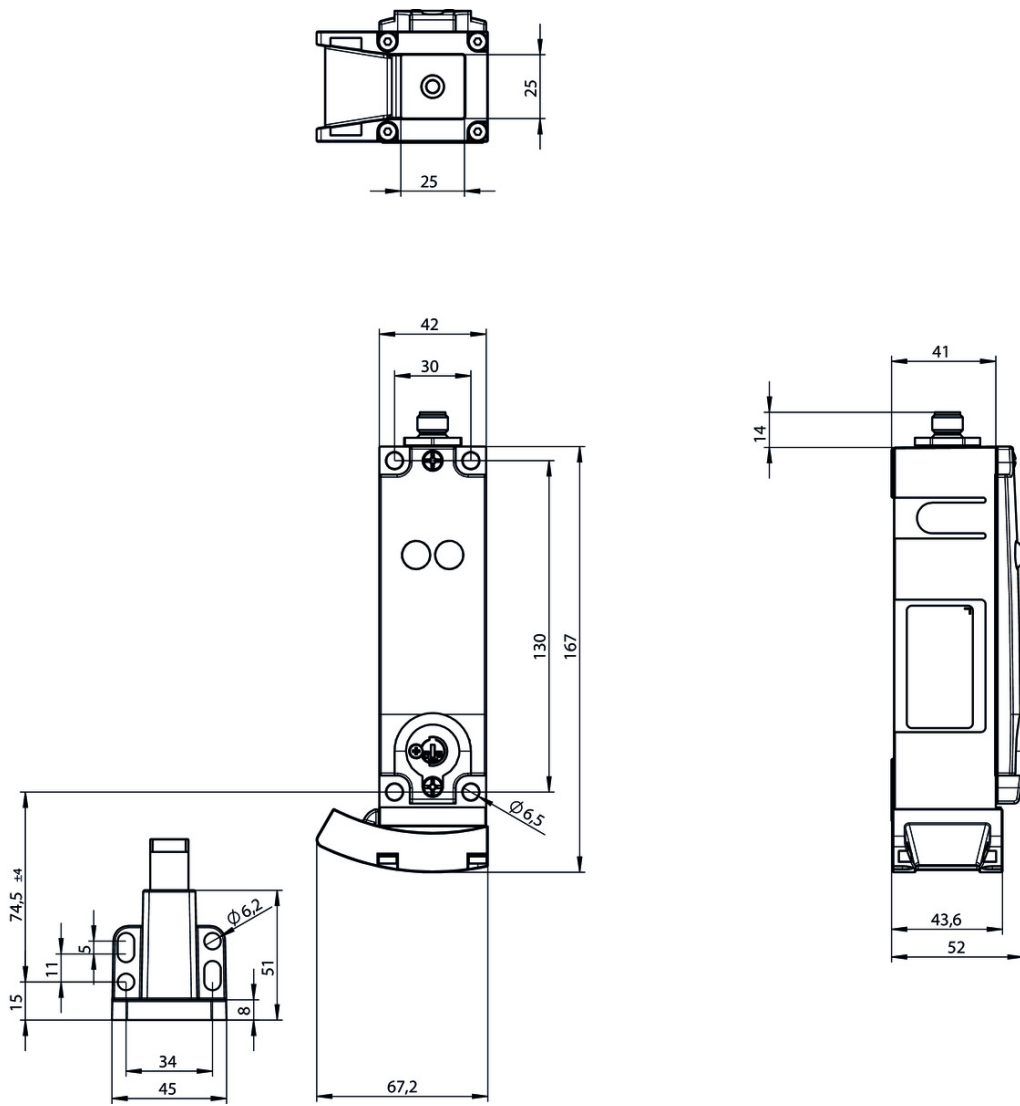
|   |              |   |
|---|--------------|---|
| Operating voltage DC  | LED          | 24 V DC -15% ... 15% Reverse polarity protected   |
| Current consumption   | $I_{CM}$     | 480 mA Solenoid   |
|   | LED          | max.6 mA  |
| Solenoid operating voltage DC                               | $U_{CM}$     | 24 V DC -15% ... +10% Reverse polarity protected, regulated, residual ripple < 5%, PELV |
| Rated insulation voltage $U_i$                              |              | 50 V  |
| Rated impulse withstand voltage $U_{imp}$                   |              | 1,5 kV  |
| Power consumption   | Solenoid     | 12 W  |
| Solenoid duty cycle   |              | 100 %   |
| Degree of contamination (external, according to EN 60947-1) |              | 3   |
| Safety class  | EN IEC 61140 | III   |

**[1]** With screwed tight plug connector

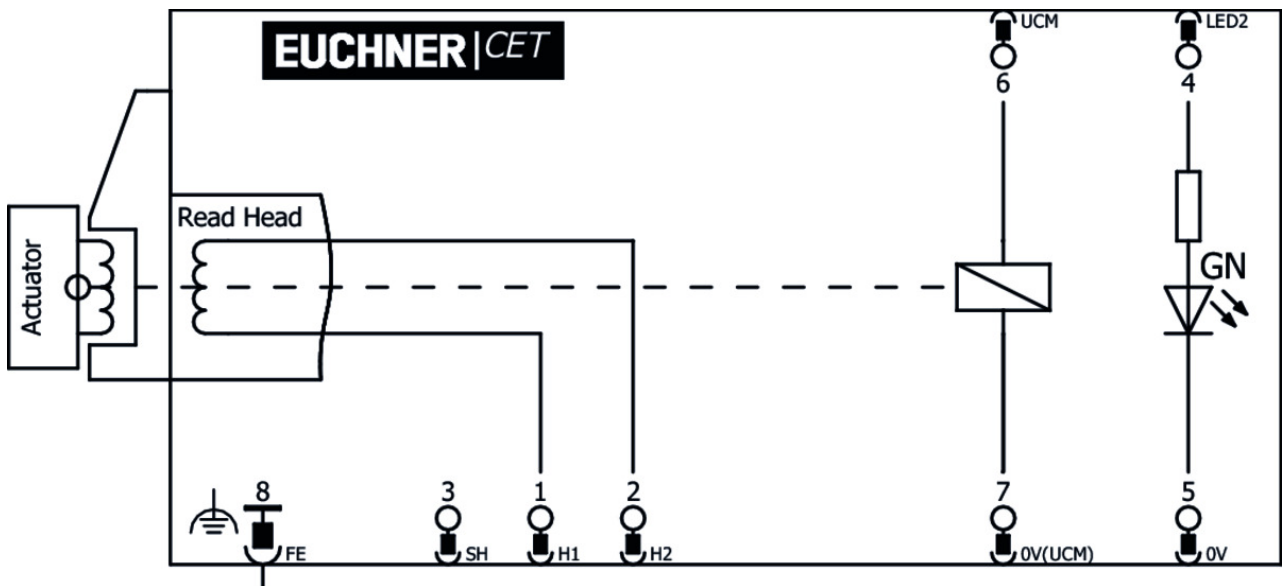
**[2]** Preferably head downward

**[3]** This value can vary depending on the evaluation unit used. See system documentation of the related evaluation unit.

### Dimension drawing



### Block diagram



## Actuator

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### Actuator CET-A-BWK-50X



#### **096327** CET-A-BWK-50X

##### Features

- › Actuator for read head/safety switch CET
  - › Four safety screws M5x16 included
- 

## Bolt

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### Bolt CET-A-C



#### **104309** RIEGEL CET-A-C

##### Features

- › Steel bolt
  - › In combination with CET
  - › For left or right hinged doors
  - › Can be locked in open position with padlocks
- 



#### **109672** RIEGEL CET-A-C-C2308

##### Features

- › Steel bolt
  - › In combination with CET
  - › For left or right hinged doors
  - › Can be locked in open position with padlocks
  - › Bolt without door stop, suitable for swing doors
- 

## Connection material

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### Connection cable with plug connector M12, 8-pin, 25m



#### **103115** C-M12F08-07X025PV25,0-MA-103115

##### Features

- › M12 female plug, 8-pin
  - › Straight plug connector
  - › PVC cable
  - › Cable length 25 m
  - › With flying lead
- 



#### **103782** C-M12F08-07X025PU25,0-MA-103782

##### Features

- › M12 female plug, 8-pin
  - › Straight plug connector
  - › PUR cable
  - › Cable length 25 m
  - › With flying lead
-

- ✓ Connection cable with angled plug connector M12, 8-pin, 10m



**100456** C-M12F08-07X025PV10,0-MA-100456

✓ Features

- › M12 female plug, 8-pin
- › Angled plug connector
- › PVC cable
- › Cable length 10 m
- › With flying lead

- ✓ Connection cable with angled plug connector M12, 8-pin, 20m



**105071** C-M12F08-07X025PV20,0-MA-105071

✓ Features

- › M12 female plug, 8-pin
- › Angled plug connector
- › PVC cable
- › Cable length 20 m
- › With flying lead

- ✓ Connection cable with plug connector M12, 8-pin, 10m



**102218** C-M12F08-07X025PU10,0-MA-102218

✓ Features

- › M12 female plug, 8-pin
- › Straight plug connector
- › PUR cable
- › Cable length 10 m
- › With flying lead



**099633** C-M12F08-07X025PV10,0-MA-099633

✓ Features

- › M12 female plug, 8-pin
- › Straight plug connector
- › PVC cable
- › Cable length 10 m
- › With flying lead

- ✓ Connection cable with plug connector M12, 8-pin, 20m



**099634** C-M12F08-07X025PV20,0-MA-099634

✓ Features

- › M12 female plug, 8-pin
- › Straight plug connector
- › PVC cable
- › Cable length 20 m
- › With flying lead

## Function expansion

- ✓ Mechanical key release for CET read head/switch



### **098850** SCHLUESSEL-HILFSENTRIEGELUNG

#### ▼ Features

- › Identical locking
  - › Key removable in “unlocked” and “locked” positions
- 

#### ▼ Emergency unlocking for CET



### **103714** NOTENTSPERRUNG CET

#### ▼ Cover for read head and actuator CET



### **098808** CET ABDECKUNG RECHTS

#### ▼ Features

- › Cover for read heads / safety switches CET and actuators CET
  - › For approach direction A
- 



### **098807** CET ABDECKUNG LINKS

#### ▼ Features

- › Cover for read heads / safety switches CET and actuators CET
  - › For approach direction C
- 

#### ▼ Double ramp for safety switch/read head CET



### **114091** CET-DR

#### ▼ Cover for actuator CET



### **124979** AM-C-124979

#### ▼ Features

- › Cover for actuator CET
  - › Horizontal and vertical fastening option on the actuator
  - › Mounting using 4 screws M5x16 (included with the actuator)
  - › Not suitable in combination with lockout bar for actuator CET
- 

#### ▼ Lockout mechanism for CET actuator



### **122609** AE-L-CET-122609

#### ▼ Features

- › Prevents unintentional closing of the door
  - › Can be secured with padlocks
  - › Not suitable in combination with cover AM-C for actuator CET
- 



### **156429** AE-L-CET-156429

#### ▼ Features

- › Prevents unintentional closing of the door
  - › Can be secured with padlocks
-

▼ Holder for lockout mechanism CET actuator



**156338** Y-CHN-A1-156338

▼ Features

- › Holder (incl. wire rope) for lockout bar CET

▼ Lockout bar and holder for CET actuators



**155865** AE-SET-LCHN-A1-155865

▼ Features

- › Prevents unintentional closing of the door
- › Can be secured with padlocks

## Mounting accessories

▼ Mounting plate EMP-L-... for CET read head/switches



**106695** EMP-L-CET

▼ Features

- › Mounting plate for CET read heads/switches
- › For hinged or sliding doors
- › Suitable for aluminum profiles 40 ... 45 mm
- › Horizontal and vertical mounting
- › Suitable for CET with escape release

▼ Mounting plate EM-P switch for safety switch CET



**126399** AM-P-126399

▼ Features

- › Mounting plate for CET read heads/switches
- › Direct mounting on aluminum profiles of width 30/40/50 mm
- › Suitable for the mounting plates AM-P-126400 and AM-P-126398

▼ Mounting plate EM-P actuator for safety switch CET



**126400** AM-P-126400

▼ Features

- › Mounting plate for CET actuator
- › Suitable for mounting on aluminum profiles of width 30/40/50 mm
- › Suitable for the mounting plates AM-P-126399 and AM-P-126398

▼ Mounting plate EM-P handle for safety switch CET



**126398** AM-P-126398










▼ Features

- › Mounting plate with handle (handle included)
- › For hinged or sliding doors
- › Horizontal and vertical assembly circuits possible
- › Suitable for aluminum profiles of width 30/40/50 mm
- › Suitable for the CET mounting plates AM-P-126399 and AM-P-126400









## Instructions

### Manual de instrucciones Cabeza de lectura CET-AX con bloqueo y monitorización de bloqueo

|   | Doc. no. | Version  | Language   | Download   |
|---|----------|----------|--|--|
| Betriebsanleitung Lesekopf CET-AX mit Zuhaltung und Zuhaltungsüberwachung<br>Operating Instructions Read Head CET-AX with Guard Locking and Guard Lock Monitoring | 2098069  | 18-07/17 | <br> |  2.0 MB |
| Mode d'emploi Tête de lecture CET-AX avec interverrouillage et contrôle de verrouillage   | 2098069  | 18-07/17 |   |  1.1 MB |
| Manual de instrucciones Cabeza de lectura CET-AX con bloqueo y monitorización de bloqueo  | 2098069  | 18-07/17 |   |  1.1 MB |
| Istruzioni di impiego, Testina di lettura CET-AX con meccanismo di ritenuta e controllo del meccanismo di ritenuta  | 2098069  | 18-07/17 |   |  1.1 MB |







## 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

|   | Doc. no. | Version  | Language  | Download   |
|---|----------|----------|---|--|
| Transpondercodierte Sicherheitssysteme mit externer Auswertung              | 127596   | 02-01/18 |  |  3.1 MB |
| Systèmes de sécurité à codage par transpondeur avec analyse externe         | 137968   | 02-01/18 |  |  3.0 MB |
| 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<br>Declaración UE de conformidad<br>Déclaration UE de conformité<br>Dichiarazione di conformità<br>EU declaration of conformity | 2077154  | 34-01/17 | <br><br><br><br> |  0.5 MB |

## CAD data

CAD data for this item on TraceParts