

CES-AZ-AES-02B (ORDER NO. 104775)

Evaluation unit CES-AZ-AES-02B (for 2 read heads)

- ▶ 2 read heads can be connected
- ▶ 2 safety outputs (relay contacts with 2 internally connected NO contacts per output)
- ▶ Start button and feedback loop can be connected
- ▶ Unicode
- ▶ Plug-in connection terminals
- ▶ Category 4/PL e according to EN ISO 13849-1



Description

Unicode evaluation

Each actuator is highly coded (unicode). The evaluation unit detects only the actuator that has been taught-in. Additional actuators can be taught-in.

Only the last actuator taught-in is detected.

New actuators are taught-in by fitting a jumper.

Guard lock monitoring

Evaluation units in the series CES-AZ make it possible to use read heads with integrated guard locking for the protection of personnel during overtraveling machine movements. You will find suitable read heads in the accessories

Category according to EN ISO 13849-1

Due to two redundant safety paths (relay contacts) with 2 internal, monitored normally open contacts per safety path, suitable for:

- ▶ Category 4/PL e according to EN ISO 13849-1

Each safety path is independently safe.

LED indicator

STATE Status LED

DIA Diagnostic LED

OUT Safety output status

Additional connections

TST Input for self-test

O1, O2 Monitoring outputs (semiconductor)

DIA Diagnostic output

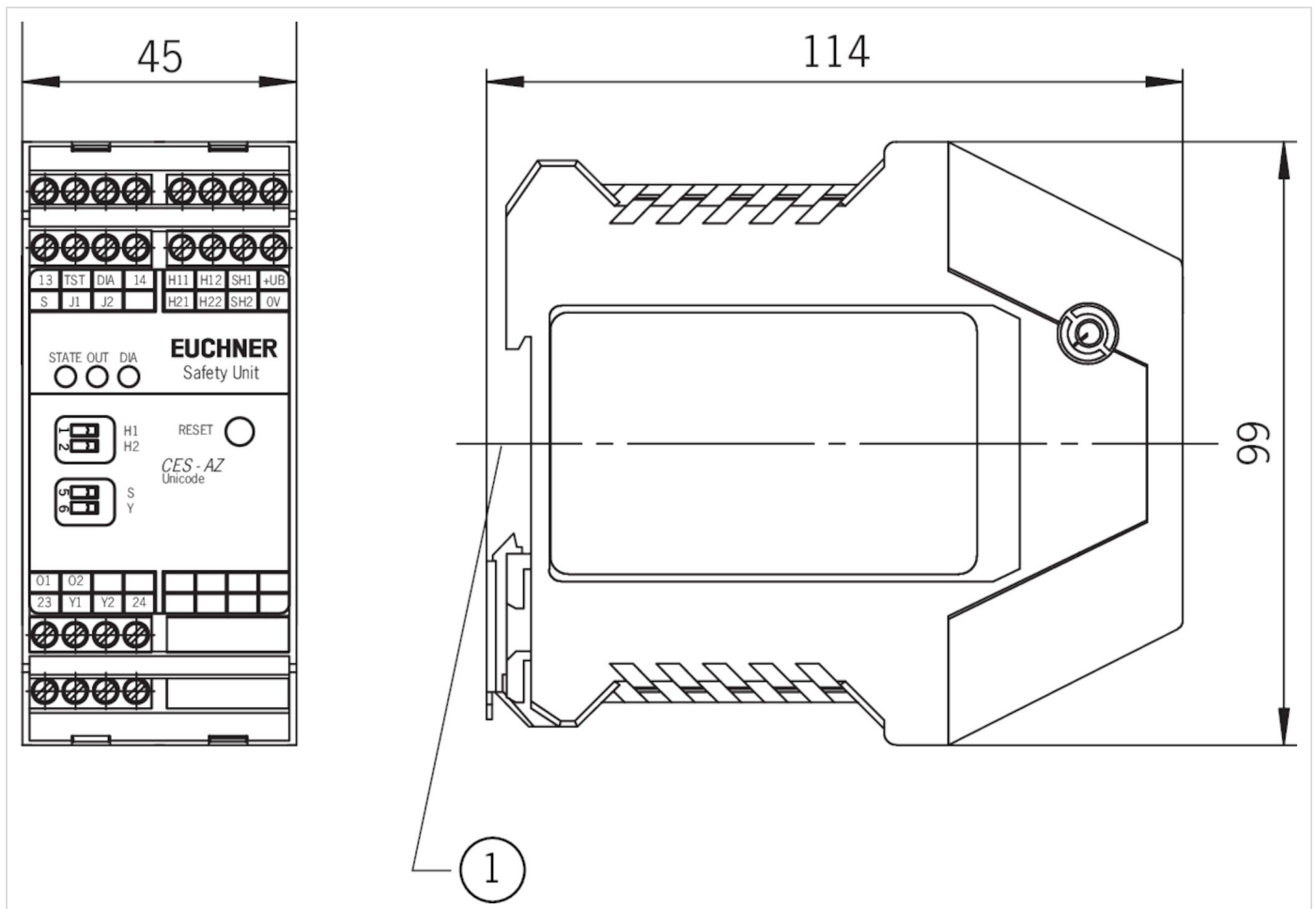
Y1, Y2 Feedback loop

J1, J2 Teach-in input

S Start button connection (monitoring of the falling edge)

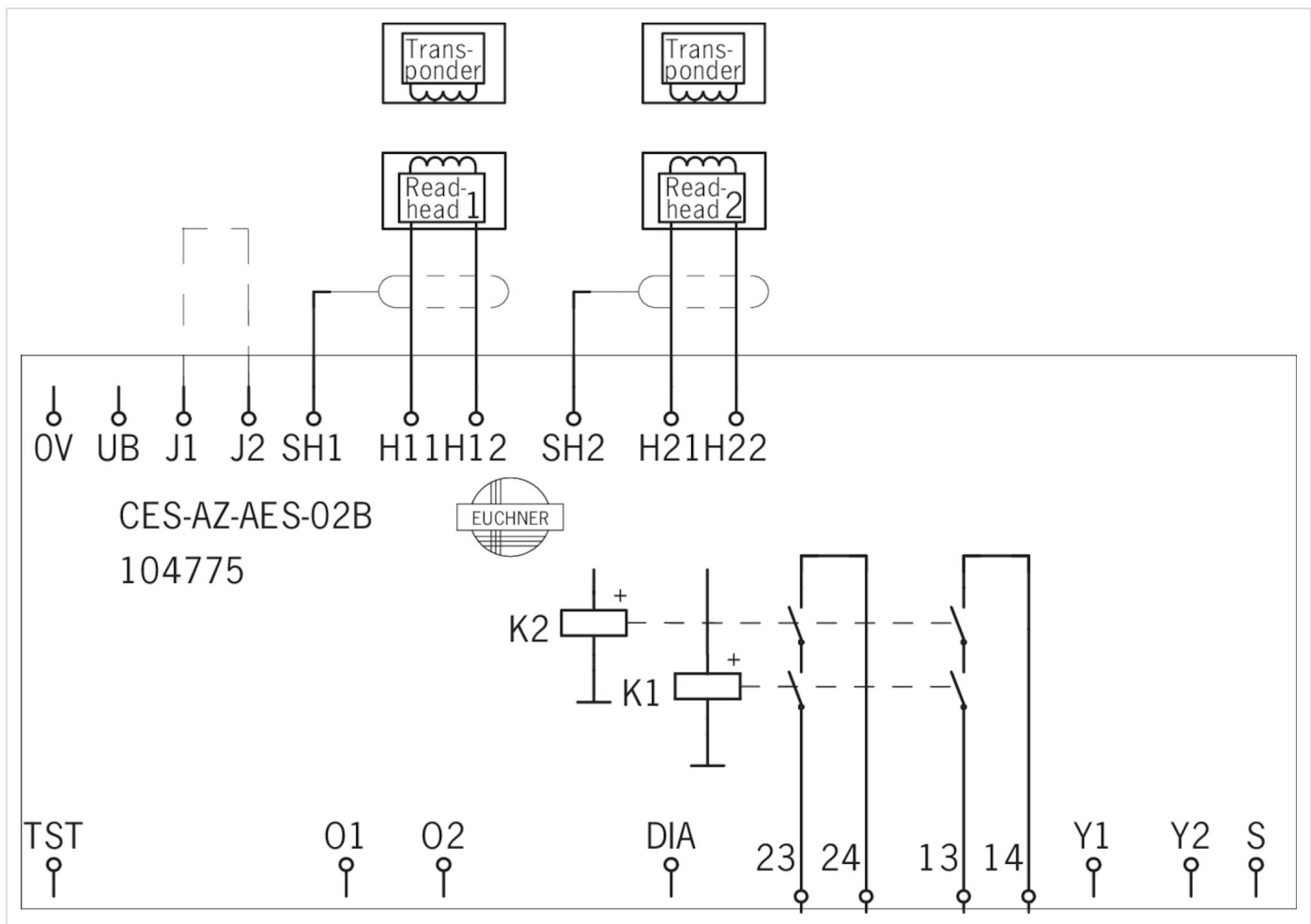
Important: The plug-in connection terminals are not included and must be ordered separately.

Dimension drawing



1 Suitable for 35 mm mounting rail according to EN 60715

Wiring diagram



Technical data

Approvals



Mechanical values and environment

| | |
|--|--|
| Housing material | Housing Plastic PA6.6 |
| Weight | Net 0,25 kg |
| Ambient temperature | At $U_B = 24V$ DC -20 ... 55 °C |
| Atmospheric humidity | Not condensing max.80 % rH |
| Degree of protection | IP20 |
| Mounting method | Mounting rail 35mm according to DIN EN 60715 TH35 |
| Mounting distance | Sideways toward the neighboring device min.10 mm (If several evaluation units are mounted side by side in a control cabinet without air circulation (e.g. fan), a minimum distance of 10 mm must be maintained between the evaluation units. The distance enables heat from the evaluation unit to dissipate.) |
| Number of read heads | Max. 2 read heads can be connected |
| Ready delay | 10 ... 12 s (After the operating voltage is switched on, the relay outputs are switched off and the door monitoring outputs are set LOW during the ready delay. For the visual indication of the delay, the green STATE LED flashes at a frequency of approx. 15 Hz.) |
| Reaction time | After change in the actuation status, 1 active actuator max.210 ms (Corresponds to the risk time according to EN 60947-5-3. This is the maximum switch-off delay for the safety outputs following removal of the actuator. In case of EMC interference in excess of the requirements in accordance with EN 60947-5-3, the switch-off delay can increase to max. 430 ms. After a brief actuation < 0.4 s, the switch-on delay can increase to max. 3 s if this is followed immediately by further actuation.) |
| | After change in the actuation status, 2 active actuators max.290 ms (Corresponds to the risk time according to EN 60947-5-3. This is the maximum switch-off delay for the safety outputs following removal of the actuator. In case of EMC interference in excess of the requirements in accordance with EN 60947-5-3, the switch-off delay can increase to max. 430 ms. After a brief actuation < 0.4 s, the switch-on delay can increase to max. 3 s if this is followed immediately by further actuation.) |
| Duration of operation start button (for Manual start operating mode) | min.250 ms |
| Response delay start button (for Manual start operating mode) | 200 ... 300 ms |
| Switching frequency | max.0,25 Hz (In case of monitoring with feedback loop, the actuators must remain outside the operating distance, e.g. with a door open, until the feedback circuit is closed.) |
| Dwell time | min.3 s (The dwell time is the time that the actuator must be inside or outside the operating distance.) |
| Connection | Plug-in connection terminals, coded (Terminals not included) Safety contacts 13/14, 23/24 |
| Number of safety contacts | 2 Relays with internally monitored contacts |
| Mechanical life | Operating cycles (relay) 10×10^6 |

Electrical connection ratings

| | |
|--|---|
| Operating voltage DC | |
| | U_B 21 ... 24 ... 27 V DC Regulated, residual ripple < 5 % |
| Current consumption | |
| (with relay energized) | 150 mA (Without taking into account the load currents on the monitoring outputs) |
| Fusing | |
| External (operating voltage U_B) | 0,25 ... 8 A |
| EMC protection requirements | In acc. with EN 60947-5-3 |
| Degree of contamination (external, according to EN 60947-1) | 2 |
| Connection cross-section | |
| (plug-in screw- / springterminals) | 0,25 ... 2,5 mm ² |
| Current via feedback loop | 5 ... 8 ... 10 mA |
| permissible resistance in feedback loop | max.600 Ω |
| DIA LED | |
| LED indicator | Diagnostics LED |
| Monitoring outputs: Diagnostic DIA, door monitoring outputs O1,O2 | |
| Type of output | Semiconductor output, p-switching, short circuit-proof |
| Output voltage | 0,8 x U_B ... U_B V DC |
| Output current | max.20 mA |
| Inputs: Start button S, test input TST | |
| Input current | |
| | HIGH 5 ... 8 ... 10 mA |
| Input voltage | |
| | HIGH 15 ... U_B V DC |
| | LOW 0 ... 2 V DC |
| Safety contacts 13/14, 23/24 | |
| Type of output | Relay contacts, floating |
| Switching current | |
| At switching voltage AC/DC 5 ... 30 V | 10 ... 6000 mA |
| At switching voltage AC 5 ... 230 V | 10 ... 2000 mA |
| At switching voltage AC/DC 21 ... 60 V | 1 ... 300 mA |
| Fusing | |
| External (safety circuit) according to EN 60269-1 | 6 AgG or 6 A circuit breaker (characteristic B or C) |
| Utilization category acc. to EN 60947-5-1 | |
| | AC-15 230 V 2 A |
| | DC-13 24 V 3 A |
| | AC-12 60 V 0.3 A |
| | 30 V 6 A |
| | DC-12 60 V 0.3 A |
| | 30 V 6 A |
| Switching load | |
| According to c UL us | Class 2 max. 30 V AC / Class 2 max. 60 V DC; 120 V AC 3 A / 240 V AC 1.5 A |
| Rated insulation voltage U_i | 250 V |
| Rated impulse withstand voltage U_{imp} | 4 kV |
| Rated conditional short-circuit current | 100 A |
| Discrepancy time | |

Discrepancy time

(Between the operating points of both relays) max.25 ms

STATE LED

LED indicator

Status LED

LED OUT

LED indicator

Safety contacts status

Work area

Repeat accuracy R

According to EN 60947-5-2 max.10 %

Other

For the approval acc. to UL the following applies (Operation only with UL class 2 power supply, or equivalent measures)

Reliability values according to EN ISO 13849-1

Monitoring of the safety guard position

Category

4

(This value is dependent on the number of switching cycles and the switching current.)

Performance Level

PL e

(This value is dependent on the number of switching cycles and the switching current.)

PFH_D

1.9×10^{-8}

(This value is dependent on the number of switching cycles and the switching current.)

Diagnostic Coverage (DC)

99 %

Number of switching cycles

≤ 0.1 A at 24 V DC max.760000 1/Jahr

≤ 1 A at 24 V DC max.153000 1/Jahr

≤ 3 A at 24 V DC max.34600 1/Jahr

Mission time

20 y

(This value is dependent on the number of switching cycles and the switching current.)

In combination with Read head CES-A-LNA-05V, CES-A-LNA-10V, CES-A-LNA-15V, CES-A-LNA-25V, CES-A-LNA-SC, CES-A-LNA-05P, CES-A-LNA-10P, CES-A-LNA-15P, CES-A-LCA-10V and Actuator CES-A-BBA, CES-A-BCA

Mechanical values and environment

Mounting distance

Neighboring read heads min.50 mm

Actuating range

Distance s, actuator

| | |
|--|----------|
| Minimum distance for side approach direction | min.3 mm |
|--|----------|

Operating distance

| | |
|------------------------|---|
| With center offset m=0 | 15 mm (These values apply for the surface installation of the read head and the actuator.) |
|------------------------|---|

| | |
|-----------------------------------|-----------|
| Assured release distance S_{ar} | max.26 mm |
|-----------------------------------|-----------|

Assured operating distance S_{ao}

| | |
|------------------------|---|
| With center offset m=0 | min.10 mm (These values apply for the surface installation of the read head and the actuator.) |
|------------------------|---|

| | |
|----------------------|--|
| Switching hysteresis | min.0,5 mm (These values apply for the surface installation of the read head and the actuator.) |
|----------------------|--|

In combination with Read head CES-A-LNA-05V, CES-A-LNA-10V, CES-A-LNA-15V, CES-A-LNA-25V, CES-A-LNA-SC, CES-A-LNA-05P, CES-A-LNA-10P, CES-A-LNA-15P, CES-A-LCA-10V and Actuator CES-A-BDA-18-156935

Mechanical values and environment

Mounting distance

| | |
|------------------------|-----------|
| Neighboring read heads | min.50 mm |
|------------------------|-----------|

Actuating range

Distance s, actuator

| | |
|--|----------|
| Minimum distance for side approach direction | min.5 mm |
|--|----------|

Operating distance

| | |
|------------------------|---|
| With center offset m=0 | 16 mm (These values apply for the surface installation of the read head and the actuator.) |
|------------------------|---|

| | |
|-----------------------------------|-----------|
| Assured release distance S_{ar} | max.32 mm |
|-----------------------------------|-----------|

Assured operating distance S_{ao}

| | |
|------------------------|---|
| With center offset m=0 | min.10 mm (These values apply for the surface installation of the read head and the actuator.) |
|------------------------|---|

Switching hysteresis

| | |
|------------------------|--|
| With center offset m=0 | min.0,5 mm (These values apply for the surface installation of the read head and the actuator.) |
|------------------------|--|

In combination with Read head CES-A-LNA-05V, CES-A-LNA-10V, CES-A-LNA-15V, CES-A-LNA-25V, CES-A-LNA-SC, CES-A-LNA-05P, CES-A-LNA-10P, CES-A-LNA-15P, CES-A-LCA-10V and Actuator CES-A-BDA-20

Mechanical values and environment

Mounting distance

| | |
|------------------------|-----------|
| Neighboring read heads | min.50 mm |
|------------------------|-----------|

Actuating range

| | |
|--|---|
| Distance s, actuator | |
| Minimum distance for side approach direction | min.4 mm (On mounting in non-metallic environment) |
| Operating distance | |
| With center offset m=0 | 16 mm (On mounting in non-metallic environment) |
| Assured release distance S_{ar} | max.33 mm |
| Assured operating distance S_{ao} | |
| With center offset m=0 | min.11 mm (On mounting in non-metallic environment) |
| Switching hysteresis | min.0,5 mm (On mounting in non-metallic environment) |

In combination with Read head CES-A-LMN-SC and Actuator CES-A-BMB

Mechanical values and environment

| | |
|------------------------|-----------|
| Mounting distance | |
| Neighboring read heads | min.20 mm |

Actuating range

| | |
|-------------------------------------|--|
| Distance s, actuator | |
| Minimum distance | min.1,2 mm |
| Operating distance | |
| With center offset m=0 | 5 mm (These values apply for surface installation of the read head in steel.) |
| Assured release distance S_{ar} | max.10 mm |
| Assured operating distance S_{ao} | |
| With center offset m=0 | min.3,5 mm (These values apply for surface installation of the read head in steel.) |
| Switching hysteresis | min.0,1 mm (These values apply for surface installation of the read head in steel.) |

In combination with Read head CES-A-LNN-SC-106601, CES-A-LNN-05V-106602, CES-A-LNN-10V-113294, CES-A-LNN-25V-115107 and Actuator CES-A-BBN-106600

Mechanical values and environment

| | |
|------------------------|------------|
| Mounting distance | |
| Neighboring read heads | min.160 mm |

Actuating range

Operating distance

| | |
|--|---|
| In z direction (with center offset $x,y=0$), in x direction (with center offset $y,z=0$) | 15 mm (These values apply for the surface installation of the read head and the actuator.) |
|--|---|

Assured release distance S_{ar}

| | |
|----------------|------------|
| In y direction | max.100 mm |
|----------------|------------|

| | |
|---------------------|-----------|
| in x or z direction | max.50 mm |
|---------------------|-----------|

Assured operating distance S_{ao}

| | |
|--|---|
| In z direction (with center offset $x,y=0$), in x direction (with center offset $y,z=0$) | min.10 mm (These values apply for the surface installation of the read head and the actuator.) |
|--|---|

| | |
|----------------------|--|
| Switching hysteresis | min.1 mm (These values apply for the surface installation of the read head and the actuator.) |
|----------------------|--|

In combination with Read head CES-A-LMN-SC and Actuator CES-A-BDA-18-156935

Mechanical values and environment

Mounting distance

| | |
|------------------------|-----------|
| Neighboring read heads | min.20 mm |
|------------------------|-----------|

Actuating range

Distance s , actuator

| | |
|--|----------|
| Minimum distance for side approach direction | min.3 mm |
|--|----------|

Operating distance

| | |
|--------------------------|--|
| With center offset $m=0$ | 9 mm (These values apply for the surface installation of the read head and the actuator.) |
|--------------------------|--|

| | |
|-----------------------------------|-----------|
| Assured release distance S_{ar} | max.21 mm |
|-----------------------------------|-----------|

Assured operating distance S_{ao}

| | |
|--------------------------|--|
| With center offset $m=0$ | min.6 mm (These values apply for the surface installation of the read head and the actuator.) |
|--------------------------|--|

Switching hysteresis

| | |
|--------------------------|--|
| With center offset $m=0$ | min.0,5 mm (These values apply for the surface installation of the read head and the actuator.) |
|--------------------------|--|

In combination with Read head CES-A-LNN-SC-106601, CES-A-LNN-05V-106602, CES-A-LNN-10V-113294, CES-A-LNN-25V-115107 and Actuator CES-A-BDN-06-104730

Mechanical values and environment

Mounting distance

| | |
|------------------------|------------|
| Neighboring read heads | min.160 mm |
|------------------------|------------|

Actuating range

Operating distance

| | |
|--|---|
| In z direction (with center offset $x,y=0$), in x direction (with center offset $y,z=0$) | 19 mm (These values apply for the surface installation of the read head and the actuator.) |
| Assured release distance S_{ar} | |
| in x or z direction | max.50 mm |
| In y direction | max.100 mm |
| Assured operating distance S_{ao} | |
| In z direction (with center offset $x,y=0$), in x direction (with center offset $y,z=0$) | min.14 mm (These values apply for the surface installation of the read head and the actuator.) |
| Switching hysteresis | 4 mm (These values apply for the surface installation of the read head and the actuator.) |

In combination with Read head CES-A-LSP-05V-104966, CES-A-LSP-10V-104967, CES-A-LSP-SB-104969, CES-A-LSP-15V-106271 and Actuator CES-A-BSP-104970

Actuating range

Operating distance

| | |
|-------------------------------------|---|
| With center offset $m=0$ | 20 mm (These values apply for the installation of the read head and the actuator in an aluminum profile 45 x 45 mm.) |
| Assured release distance S_{ar} | max.45 mm |
| Assured operating distance S_{ao} | |
| With center offset $m=0$ | min.10 mm (These values apply for the installation of the read head and the actuator in an aluminum profile 45 x 45 mm.) |
| Switching hysteresis | min.1 mm (These values apply for the installation of the read head and the actuator in an aluminum profile 45 x 45 mm.) |

In combination with Read head CES-A-LQA-SC and Actuator CES-A-BQA

Mechanical values and environment

Mounting distance

| | |
|------------------------|-----------|
| Neighboring read heads | min.80 mm |
|------------------------|-----------|

Actuating range

Operating distance

| | |
|--|--|
| For vertical approach direction (center offset m=0) | 23 mm (These values apply for surface installation of the read head and the actuator.) |
| For side approach direction (distance in x direction 10 mm) | ± 28 mm (These values apply for surface installation of the read head and the actuator.) |
| Assured release distance S_{ar} | max.60 mm |
| Assured operating distance S_{ao} | |
| For side approach direction (distance in x direction 10 mm) | min. ± 24 mm (These values apply for surface installation of the read head and the actuator.) |
| For vertical approach direction (center offset m=0) | min.16 mm (These values apply for surface installation of the read head and the actuator.) |
| Switching hysteresis | |
| For vertical approach direction (center offset m=0) | min.2 mm (These values apply for surface installation of the read head and the actuator.) |
| For side approach direction (distance in x direction 10 mm) | min.1 mm (These values apply for surface installation of the read head and the actuator.) |

In combination with Read head CES-A-LQA-SC and Actuator CES-A-BBA, CES-A-BCA

Mechanical values and environment

Mounting distance

Neighboring read heads min.80 mm

Actuating range

Operating distance

| | |
|---|--|
| For vertical approach direction (center offset m=0) | 15 mm (These values apply for surface installation of the read head and the actuator.) |
| For side approach direction (distance in x direction 8 mm) | ± 22 mm (These values apply for surface installation of the read head and the actuator.) |
| Assured release distance S_{ar} | max.47 mm |
| Assured operating distance S_{ao} | |
| For vertical approach direction (center offset m=0) | min.10 mm (These values apply for surface installation of the read head and the actuator.) |
| For side approach direction (distance in x direction 8 mm) | min. ± 18 mm (These values apply for surface installation of the read head and the actuator.) |
| Switching hysteresis | |
| For vertical approach direction (center offset m=0) | 2 ... 3 mm (These values apply for surface installation of the read head and the actuator.) |
| For side approach direction (distance in x direction 8 mm) | min.1 mm (These values apply for surface installation of the read head and the actuator.) |

In combination with Read head CES-A-LMN-SC and Actuator CES-A-BBA

Mechanical values and environment

Mounting distance

Neighboring read heads min.20 mm

Actuating range

Operating distance

| | |
|------------------------|---|
| With center offset m=0 | 8 mm A distance of s = 3 mm must be maintained for a side approach direction. (This value applies for the surface installation of the read head in metal and the non-metallic installation of the actuator.) |
|------------------------|---|

Assured release distance S_{ar}

| | |
|------------------------|---|
| With center offset m=0 | max.25 mm (This value applies for the surface installation of the read head in metal and the non-metallic installation of the actuator.) |
|------------------------|---|

Assured operating distance S_{ao}

| | |
|------------------------|--|
| With center offset m=0 | min.5 mm (This value applies for the surface installation of the read head in metal and the non-metallic installation of the actuator.) |
|------------------------|--|

Switching hysteresis

| | |
|------------------------|--|
| With center offset m=0 | min.1 mm (These values apply for the surface installation of the read head in metal and the non-metallic installation of the actuator.) |
|------------------------|--|

In combination with Read head CES-A-LMN-SC and Actuator CES-A-BDA-20

Mechanical values and environment

Mounting distance

| | |
|------------------------|-----------|
| Neighboring read heads | min.20 mm |
|------------------------|-----------|

Actuating range

Operating distance

| | |
|------------------------|---|
| With center offset m=0 | 9 mm A distance of s = 4 mm must be maintained for a side approach direction. (This value applies for the surface installation of the read head in metal and the non-metallic installation of the actuator.) |
|------------------------|---|

Assured release distance S_{ar}

| | |
|------------------------|---|
| With center offset m=0 | max.26 mm (This value applies for the surface installation of the read head in metal and the non-metallic installation of the actuator.) |
|------------------------|---|

Assured operating distance S_{ao}

| | |
|------------------------|--|
| With center offset m=0 | min.6 mm (This value applies for the surface installation of the read head in metal and the non-metallic installation of the actuator.) |
|------------------------|--|

Switching hysteresis

| | |
|------------------------|--|
| With center offset m=0 | min.1 mm (These values apply for the surface installation of the read head in metal and the non-metallic installation of the actuator.) |
|------------------------|--|

Accessories

Connection material

Connection kit for evaluation units CES-AZ-.ES-02B, screw terminals

104771
CES-EA-TC-AK06-104771

- ▶ Plug-in screw terminals for evaluation units CES-AZ-.ES-02B
- ▶ Coded

Connection kit for evaluation units CES-AZ-.ES-02B, spring terminals

112630
CES-EA-TC-KK06-112630

- ▶ Plug-in spring terminals for evaluation units CES-AZ-.ES-02B
- ▶ Coded

Miscellaneous accessories

Inrush current limiting module PM-SCL

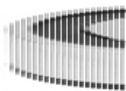


096945
PM-SCL-096945

- ▶ Very high currents are produced on power up if capacitive loads are switched; these currents cause increased wear on electromagnetic switching contacts. The PM-SCL module limits the inrush current for approx. 120 ms and protects the switching contacts.

Read head

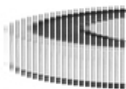
Read head CEM-A-LE05... with guard locking without guard lock monitoring without remanence



095792
CEM-A-LE05R-S2

- ▶ Read head with guard locking without guard lock monitoring
- ▶ Locking force 650 N
- ▶ Without remanence
- ▶ Up to category 4 according to EN ISO 13849-1
- ▶ Two safety screws M5x16 included

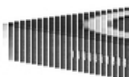
Read head CEM-A-LE05... with guard locking without guard lock monitoring with remanence



094800
CEM-A-LE05K-S2

- ▶ Read head with guard locking without guard lock monitoring
- ▶ Locking force 650 N
- ▶ With remanence
- ▶ Up to category 4 according to EN ISO 13849-1
- ▶ Two safety screws M5x16 included

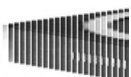
Read head CEM-A-LH10K-S3 with guard locking without guard lock monitoring with remanence



095170
CEM-A-LH10K-S3

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

Read head CEM-A-LH10R-S3 with guard locking without guard lock monitoring without remanence



095793
CEM-A-LH10R-S3

- ▶ Read head with guard locking without guard lock monitoring
- ▶ Locking force 1000 N
- ▶ Without remanence

- ▶ Market reference
- ▶ Up to category 4 according to EN ISO 13849-1

Read head CES-A-LCA..., hard-wired encapsulated cable 10 m, PVC



088785
CES-A-LCA-10V

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Hard-wired encapsulated cable made of PVC
- ▶ Cable length 10 m
- ▶ Two safety screws M4x14 included

Read head CES-A-LMN-SC, M8 plug connector



077790
CES-A-LMN-SC

- ▶ Cylindrical design M12
- ▶ M8 plug connector

Read head CES-A-LNA-SC, M8 plug connector



077715
CES-A-LNA-SC

- ▶ Cube-shaped design 42 x 25 mm
- ▶ With plug connector M8
- ▶ Two safety screws M4x14 included

Read head CES-A-LNA..., hard-wired encapsulated cable 5 m, PVC



071845
CES-A-LNA-05V

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Hard-wired encapsulated cable made of PVC
- ▶ Cable length 5 m
- ▶ Two safety screws M4x14 included



077806
CES-A-LNA-05P

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Hard-wired encapsulated cable made of PUR
- ▶ Cable length 5 m
- ▶ Two safety screws M4x14 included

Read head CES-A-LNA..., hard-wired encapsulated cable 10 m, PUR



077807
CES-A-LNA-10P

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Hard-wired encapsulated cable made of PUR
- ▶ Cable length 10 m
- ▶ Two safety screws M4x14 included

Read head CES-A-LNA..., hard-wired encapsulated cable 10 m, PVC



071846
CES-A-LNA-10V

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Hard-wired encapsulated cable made of PVC
- ▶ Cable length 10 m
- ▶ Two safety screws M4x14 included

Read head CES-A-LNA..., hard-wired encapsulated cable 15 m, PUR



084682
CES-A-LNA-15P

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Hard-wired encapsulated cable made of PUR
- ▶ Cable length 15 m
- ▶ Two safety screws M4x14 included

Read head CES-A-LNA..., hard-wired encapsulated cable 15 m, PVC



071847
CES-A-LNA-15V

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Hard-wired encapsulated cable made of PVC
- ▶ Cable length 15 m
- ▶ Two safety screws M4x14 included

Read head CES-A-LNA..., hard-wired encapsulated cable 25 m, PVC



071975
CES-A-LNA-25V

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Hard-wired encapsulated cable made of PVC
- ▶ Cable length 25 m
- ▶ Two safety screws M4x14 included

Read head CES-A-LNN-...hard-wired encapsulated cable 5 m, PVC



106602
CES-A-LNN-05V-106602

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Mounting compatible with series CES-A-LNA/LCA
- ▶ LED for the indication of the door position
- ▶ Hard-wired encapsulated cable, PVC
- ▶ Cable length 5 m

Read head CES-A-LNN-SC... M8 plug connector



106601
CES-A-LNN-SC-106601

- ▶ Cube-shaped design 42 x 25 mm
- ▶ Mounting compatible with series CES-A-LNA/LCA
- ▶ LED for the indication of the door position
- ▶ With plug connector M8

Read head CES-A-LQA-SC, M8 plug connector



095650
CES-A-LQA-SC

- ▶ Cube-shaped design 50 x 50 mm
- ▶ M8 plug connector
- ▶ Two safety screws M4x14 included

Read head CES-A-LSP-..., hard-wired encapsulated cable 5 m, PVC



104966
CES-A-LSP-05V-104966

- ▶ Optimized for aluminum profile mounting
- ▶ LED for the indication of the door position
- ▶ Hard-wired encapsulated cable made of PVC
- ▶ Cable length 5 m

Read head CET1-AX-..., 2 plug connectors M8, with guard locking and guard lock monitoring



102988
CET1-AX-LRA-00-50X-SC

- ▶ Read head with guard locking
- ▶ Locking force up to 6500 N
- ▶ Up to category 4/PL e according to EN

ISO 13849-1

- ▶ With 2 plug connectors M8
- ▶ 2 LEDs (1 freely configurable)
- ▶ Approach direction A (delivery state)

Read head CET1-AX-..., M12, with guard locking and guard lock monitoring



095735
CET1-AX-LRA-00-50X-SA

- ▶ 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
- ▶ 2 LEDs (1 freely configurable)
- ▶ Approach direction A (delivery state)

Read head CET1-AX-... M12, with guard locking and guard lock monitoring, 2 freely configurable LEDs



104062
CET1-AX-LRA-00-50L-SA

- ▶ 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
- ▶ 2 LEDs (2 freely configurable)
- ▶ Approach direction A (delivery state)

Read head CET1-AX-... M12, with guard locking and guard lock monitoring, double insertion slide



100399
CET1-AX-LDA-00-50X-SE

- ▶ 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
- ▶ 2 LEDs (1 freely configurable)
- ▶ With double ramp
- ▶ Approach direction A and C (default setting on delivery)

Read head CET1-AX-... M12, with guard locking and guard lock monitoring, escape release



102161
CET1-AX-LRA-00-50F-SA

- ▶ 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
- ▶ 2 LEDs (1 freely configurable)
- ▶ With escape release, 75 mm long
- ▶ Approach direction A (delivery state)

Contacts

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