ITEM 105139 CES-AZ-UES-01B

Features

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

Multicode evaluation

Every suitable actuator is detected by the evaluation unit.

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 Diagnostics LED
OUT Safety output status

Additional connections

TST Input for self-test
O1 Monitoring output (semiconductor)
DIA Diagnostics output
Y1, Y2 Feedback loop
S Start button connection (monitoring of the falling edge)
Important: The plug-in connection terminals are not included and must be ordered separately.

Approvals

Mechanical values and environment

Housing material	Plastic PA6.6
Weight	
Net	0,2 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 [1]
Number of read heads	1 read head can be connected
Ready delay	10 ... 12 s [2]
Reaction time	
After change in the actuation status	max.210 ms [3]
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 [4]
Dwell time	min.3 s [5]
Connection	Plug-in connection terminals, coded [6]
	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
Current consumption	
(with relay energized)	150 mA [7]
Fusing	
External (operating voltage UB)	0,4 ... 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 mm²
Current via feedback loop	5 ... 8 ... 10 mA
permissible resistance in feedback loop	max.600 Ω
	Safety contacts 13/14, 23/24
Type of output	Relay contacts, floating
Switching current	
At switching voltage AC/DC 21 ... 60 V	1 ... 300 mA
At switching voltage AC/DC 5 ... 30 V	10 ... 6000 mA
At switching voltage AC 5 ... 230 V	10 ... 2000 mA
Fusing	
External (safety circuit) according to EN 60269-1	6 AgG or 6 A circuit breaker (characteristic B or C)
Utilization category according 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	Max. AC 30 V, class 2 / max. DC 60 V, class 2
Rated insulation voltage U_i	250 V
Rated impulse withstand voltage U_{imp}	max.4 kV
Rated conditional short-circuit current	100 A

Discrepancy time	
(Between the operating points of both relays)	max.25 ms
	Monitoring outputs: Diagnostic DIA, door monitoring output O1
Type of output	Semiconductor output, p-switching, short circuit-proof
Output voltage	0,8 x UB ... UB 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 ... UB V DC
LOW	0 ... 2 V DC
	STATE LED
LED indicator	Status LED
	LED OUT
LED indicator	Safety contacts status
	DIA LED
LED indicator	Diagnostics LED

Operating distance

Repeat accuracy R	
According to EN 60947-5-2	max.10 %

Miscellaneous

For the approval according to UL the following applies	Operation only with UL class 2 power supply, or equivalent measures

Reliability values acc. to EN ISO 13849-1

	Monitoring of the safety guard position
Category	4 **[8]**
Performance Level	PL e **[9]**
PFH_D	1.9×10^{-8} **[10]**

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 **[11]**

in combination withRead 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-10VandActuator CES-A-BBA, CES-A-BCA

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.50 mm

Operating distance

Distance s, actuator	
Minimum distance for side approach direction	min.3 mm
Switch-on distance	
With center offset m=0	15 mm [12]
Assured switch-off distance S_{ar}	max.26 mm
Assured operating distance S_{ao}	
With center offset m=0	min.10 mm [13]
Switching hysteresis	0,5 ... 2 mm [14]

in combination withRead 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-10VandActuator CES-A-BDA-20

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.50 mm

Operating distance

Distance s, actuator	
Minimum distance for side approach direction	min.4 mm [15]
Switch-on distance	
With center offset m=0	16 mm [16]
Assured switch-off distance S_{ar}	max.33 mm
Assured operating distance S_{ao}	
With center offset m=0	min.11 mm [17]
Switching hysteresis	0,5 ... 2 mm [18]

in combination withRead head CES-A-LMN-SCandActuator CES-A-BMB

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.20 mm

Operating distance

Distance s, actuator	
Minimum distance	min.1,2 mm
Switch-on distance	

With center offset m=0	5 mm [19]
Assured switch-off distance S_{ar}	max.10 mm
Assured operating distance S_{ao}	
With center offset m=0	min.3,5 mm [20]
Switching hysteresis	0,1 ... 0,3 mm [21]

in combination withRead 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-10VandActuator CES-A-BDA-18-156935

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.50 mm

Operating distance

Distance s, actuator	
Minimum distance for side approach direction	min.5 mm
Switch-on distance	
With center offset m=0	16 mm [22]
Assured switch-off distance S_{ar}	max.32 mm
Assured operating distance S_{ao}	
With center offset m=0	min.10 mm [23]
Switching hysteresis	
With center offset m=0	0,5 ... 1,4 mm [24]

in combination withRead head CES-A-LNN-SC-106601, CES-A-LNN-05V-106602, CES-A-LNN-10V-113294, CES-A-LNN-25V-115107andActuator CES-A-BBN-106600

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.160 mm

Operating distance

Switch-on distance	
In z direction (with center offset x,y=0), in x direction (with center offset y,z=0)	15 mm [25]
Assured switch-off 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.10 mm [26]
Switching hysteresis	1 ... 4 mm [27]

in combination withRead head CES-A-LNN-SC-106601, CES-A-LNN-05V-106602, CES-A-

LNN-10V-113294, CES-A-LNN-25V-115107andActuator CES-A-BDN-06-104730

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.160 mm

Operating distance

Switch-on distance	
In z direction (with center offset x,y=0), in x direction (with center offset y,z=0)	19 mm [28]
Assured switch-off 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.14 mm [29]
Switching hysteresis	4 mm [30]

in combination withRead head CES-A-LSP-05V-104966, CES-A-LSP-10V-104967, CES-A-LSP-25V-104968, CES-A-LSP-SB-104969, CES-A-LSP-15V-106271, CES-A-LSP-20V-106272andActuator CES-A-BSP-104970

Operating distance

Switch-on distance	
With center offset m=0	20 mm [31]
Assured switch-off distance S_{ar}	max.45 mm
Assured operating distance S_{ao}	
With center offset m=0	min.10 mm [32]
Switching hysteresis	1 ... 4 mm [33]

in combination withRead head CES-A-LQA-SCandActuator CES-A-BQA

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.80 mm

Operating distance

Switch-on distance	
For vertical approach direction (center offset m=0)	23 mm [34]
For side approach direction (distance in x direction 10 mm)	± 28 mm [35]
Assured switch-off distance S_{ar}	max.60 mm
Assured operating distance S_{ao}	
For vertical approach direction (center offset m=0)	min.16 mm [36]

For side approach direction (distance in x direction 10 mm)	min.± 24 mm [37]
Switching hysteresis	
For vertical approach direction (center offset m=0)	2 ... 3 mm [38]
For side approach direction (distance in x direction 10 mm)	1 ... 1,3 mm [39]

in combination withRead head CES-A-LQA-SCandActuator CES-A-BBA, CES-A-BCA

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.80 mm

Operating distance

Switch-on distance	
For vertical approach direction (center offset m=0)	15 mm [40]
For side approach direction (distance in x direction 8 mm)	± 22 mm [41]
Assured switch-off distance S_{ar}	max.47 mm
Assured operating distance S_{ao}	
For vertical approach direction (center offset m=0)	min.10 mm [42]
For side approach direction (distance in x direction 8 mm)	min.± 18 mm [43]
Switching hysteresis	
For vertical approach direction (center offset m=0)	2 ... 3 mm [44]
For side approach direction (distance in x direction 8 mm)	1 ... 1,8 mm [45]

in combination withRead head CES-A-LMN-SCandActuator CES-A-BDA-20

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.20 mm

Operating distance

Switch-on distance	
With center offset m=0	A distance of s = 4 mm must be maintained for a side approach direction. 9 mm [46]
Assured switch-off distance S_{ar}	
With center offset m=0	max.26 mm [47]
Assured operating distance S_{ao}	
With center offset m=0	min.6 mm [48]
Switching hysteresis	
With center offset m=0	1 ... 1,8 mm [49]

in combination withRead head CES-A-LMN-SCandActuator CES-A-BBA

Mechanical values and environment

Mounting distance	
Neighboring read heads	min.20 mm

Operating distance

Switch-on distance	
With center offset m=0	A distance of s = 3 mm must be maintained for a side approach direction. 8 mm [50]
Assured switch-off distance S_{ar}	
With center offset m=0	max.25 mm [51]
Assured operating distance S_{ao}	
With center offset m=0	min.5 mm [52]
Switching hysteresis	
With center offset m=0	1 ... 1,8 mm [53]

[1] 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.

[2] After the operating voltage is switched on, the relay outputs are switched off and the door monitoring output is 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.

[3] 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. 250 ms. After a brief actuation < 0.25 s, the switch-on delay can increase to max. 3 s if this is followed immediately by further actuation.

[4] 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

[5] The dwell time is the time that the actuator must be inside or outside the operating distance.

[6] Terminals not included

[7] Without taking into account the load currents on the monitoring outputs

[8, 9, 10, 11] This value is dependent on the number of switching cycles and the switching current.

[12, 13, 14, 25, 26, 27, 28, 29, 30] These values apply for the surface installation of the read head and the actuator.

[15, 16, 17, 18] On mounting in non-metallic environment

[19, 20, 21] These values apply for surface installation of the read head in steel.

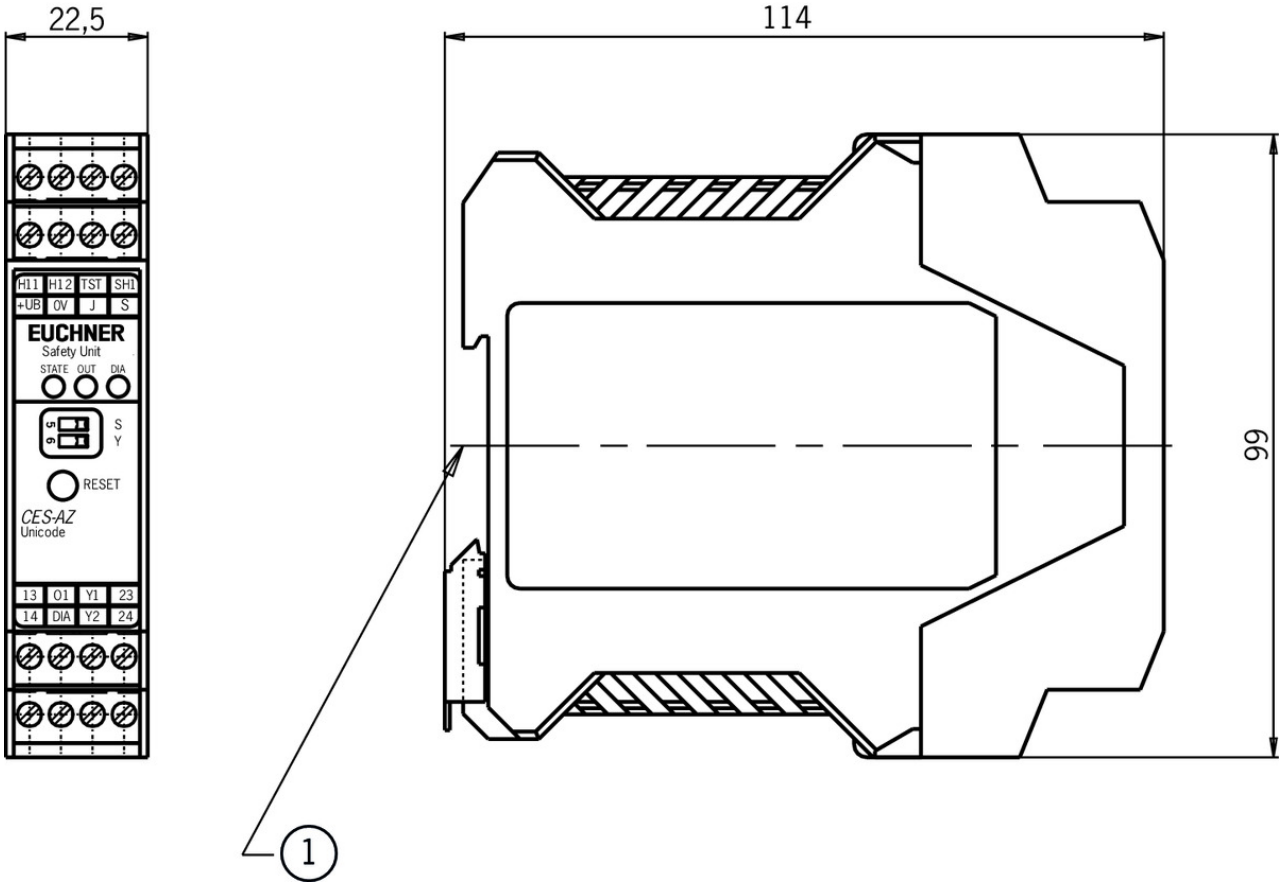
[22, 23, 24, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45] These values apply for surface installation of the read head and the actuator.

[31, 32, 33] These values apply for the installation of the read head and the actuator in an aluminum profile 45 x 45 mm.

[46, 47, 48, 50, 51, 52] This value applies for the surface installation of the read head in metal and the non-metallic installation of the actuator.

[49, 53] These values apply for surface installation of the read head in metal and the non-metallic installation of the actuator.

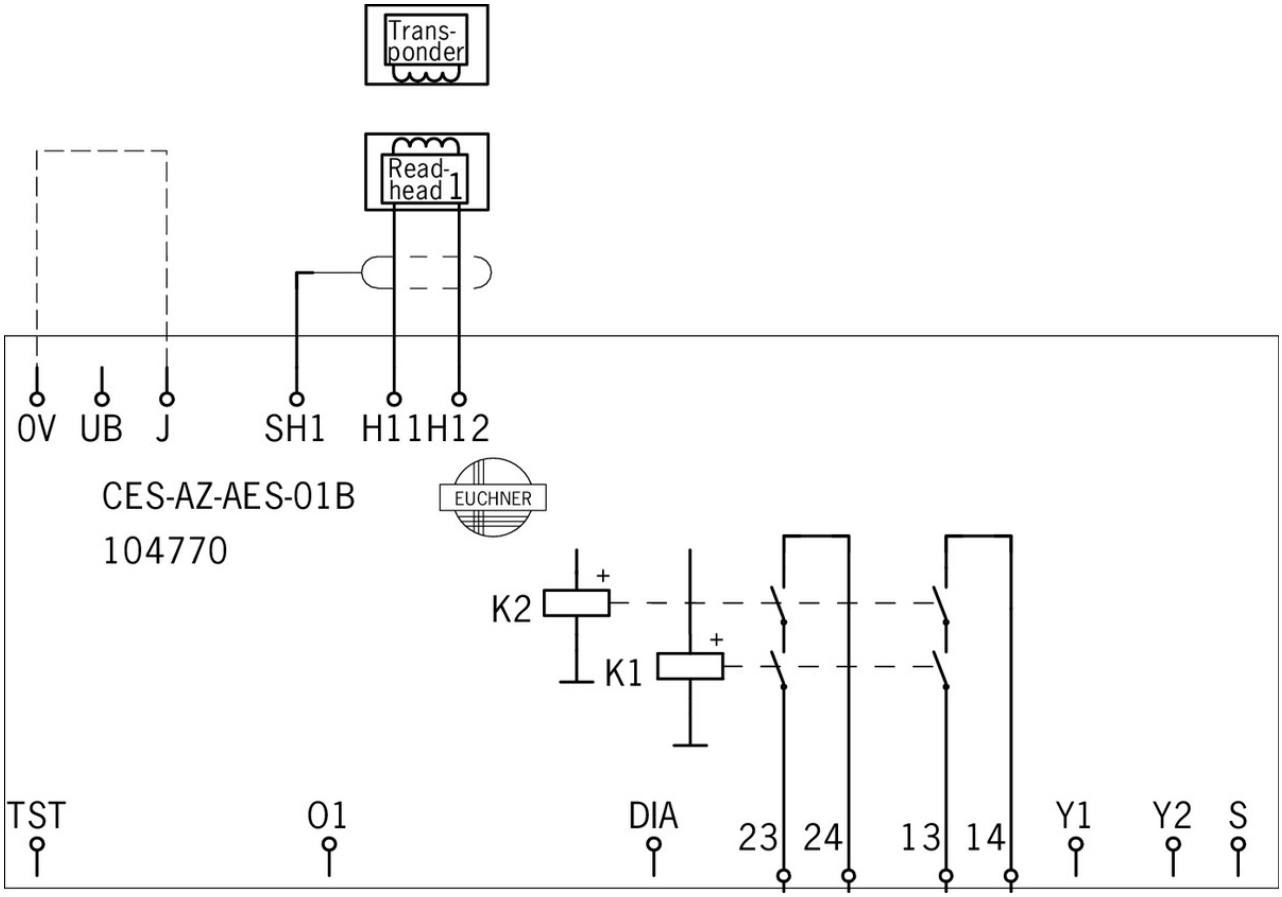
Dimension drawing



Legende

1 Suitable for 35 mm mounting rail according to EN 60715

Block diagram



Additional system components

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

071845 CES-A-LNA-05V

Features

- 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

Features

- 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-LQA-SC, M8 plug connector

095650 CES-A-LQA-SC

Features

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

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

071975 CES-A-LNA-25V

Features

- 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-LCA..., hard-wired encapsulated cable 10 m, PVC

088785 CES-A-LCA-10V

Features

- 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-SC, M8 plug connector

077715 CES-A-LNA-SC

Features

- 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 15 m, PUR

084682 CES-A-LNA-15P

Features

- 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 10 m, PUR

077807 CES-A-LNA-10P

Features

- 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

Features

- 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, PVC

071847 CES-A-LNA-15V

Features

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

095170 CEM-A-LH10K-S3

Features

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

077790 CES-A-LMN-SC

Features

- Cylindrical design M12
- M8 plug connector

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

094800 CEM-A-LE05K-S2

Features

- 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-LE05... with guard locking without guard lock monitoring without remanence

095792 CEM-A-LE05R-S2

Features

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

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

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
- 2 LEDs (2 freely configurable)
- Approach direction A (default setting on delivery)

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

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

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
- 2 LEDs (1 freely configurable)
- Approach direction A (default setting on delivery)

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

095793 CEM-A-LH10R-S3

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

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

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

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
- 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, double insertion slide

103750 CET1-AX-LDA-00-50F-SA

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
- 2 LEDs (1 freely configurable)

- With escape release, 75 mm long
- 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

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
- 2 LEDs (1 freely configurable)
- With escape release, 75 mm long
- Approach direction A (default setting on delivery)

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

106271 CES-A-LSP-15V-106271

Features

- Optimized for aluminum profile mounting
- LED for the indication of the door position
- Hard-wired encapsulated cable made of PVC
- Cable length 15 m

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

104966 CES-A-LSP-05V-104966

Features

- 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 CES-A-LSP-..., hard-wired encapsulated cable 10 m, PVC

104967 CES-A-LSP-10V-104967

Features

- Optimized for aluminum profile mounting
- LED for the indication of the door position
- Hard-wired encapsulated cable made of PVC
- Cable length 10 m

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

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

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 2 plug connectors M8
- 2 LEDs (1 freely configurable)

- Approach direction A (default setting on delivery)

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

103444 CET1-AX-LDA-00-50X-SC

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 2 plug connectors M8
- 2 LEDs (1 freely configurable)
- With double ramp
- Approach direction A and C (default setting on delivery)

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

106601 CES-A-LNN-SC-106601

Features

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

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

106602 CES-A-LNN-05V-106602

Features

- Cube-shaped design 42 x 25 mm
- Attachment 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-LSP-SB..., plug connector M5

104969 CES-A-LSP-SB-104969

Features

- Optimized for aluminum profile mounting
- LED for the indication of the door position
- M5 plug connector

Connection material

Connection kit for evaluation units CES-AZ-.ES-01B, spring terminals

112631 CES-EA-TC-KK04-112631

Features

- Plug-in spring terminals for evaluation units CCES-AZ-.ES-01B
- Coded

Connection kit for evaluation units CES-AZ-.ES-01B, screw terminals

104756 CES-EA-TC-AK04-104756

Features

- Plug-in screw terminals for evaluation units CES-AZ-.ES-01B
- Coded

Miscellaneous accessories

Inrush current limiting module PM-SCL

096945 PM-SCL-096945

Features

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. 100 ms and protects the switching contacts.

Instructions

Návod k použití Bezkontaktní bezpečnostní systém CES-AZ-UES-... (Multicode)

	Doc. no.	Version	Language	Download
Betriebsanleitung Berührungsloses Sicherheitssystem CES-AZ-UES-... (Multicode)	2105274	09-09/17		1.8 MB
Mode d'emploi Système de sécurité sans contact CES-AZ-UES-... (Multicode)	2105274	09-09/17		1.8 MB
Manual de instrucciones Sistema de seguridad sin contacto CES-AZ-UES-... (Multicode)	2105274	09-09/17		1.8 MB
Návod k použití Bezkontaktní bezpečnostní systém CES-AZ-UES-... (Multicode)	2105274	09-09/17		1.9 MB
Operating instructions Non-contact safety system CES-AZ-UES-... (Multicode)	2105274	09-09/17		1.8 MB
Istruzioni di impiego Sistema di sicurezza senza contatto CES-AZ-UES-... (Multicode)	2105274	09-09/17		1.8 MB
使用说明书非接触式安全系统 CES-AZ-UES-...（通用编码）	2105274	09-09/17		2.0 MB

Sicherheitsinformation und Wartung CES-A.../CES-AZ/CES-FD

	Doc. no.	Version	Language	Download

Sicherheitsinformation und Wartung CES-A.../CES-AZ/CES-FD Información de seguridad y mantenimiento CES-A.../CES-AZ/CES-FD Information de sécurité et entretien CES-A.../CES-AZ/CES-FD Informazioni sulla sicurezza e manutenzione CES-A.../CES-AZ/CES-FD Safety Information and Maintenance CES-A.../CES-AZ/CES-FD	109083	07-04/16		0.5 MB
Bezpečnostní informace a pokyny k údržbě CES-A.../CES-AZ/CES-FD	109083	07-04/16		0.2 MB
Informacje o bezpieczeństwie i konserwacji CES-A.../CES-AZ/CES-FD	109083	07-04/16		0.2 MB
安全信息和维护 CES-A.../CES-AZ/CES-FD	109083	07-04/16		0.3 MB

Catalogs

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CAD data

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