

CES-A-LNA-SC read head

- ▶ **Cube-shaped design 42 x 25 mm**
- ▶ **M8 plug connector (snap-action and screw terminals)**
(M8 connection cable see page 53)
- ▶ **In combination with CES-A-A evaluation units and CES-A-BBA actuators...**

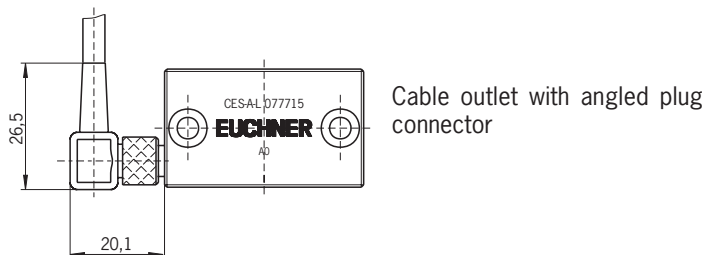
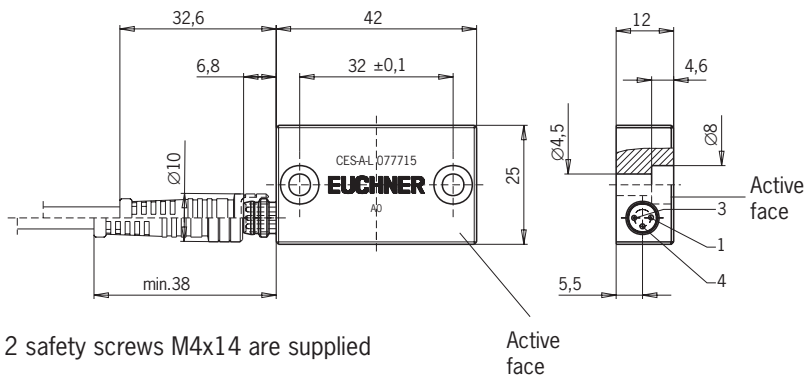


SIBS
Schweiz



II 3 G, EEx n A II T5 (zone 2, gases)
II 3 D, EEx n A II T5, 70°C
(zone 22, dusts)

Dimension drawing type CES-A-LNA-SC



Notes on installation

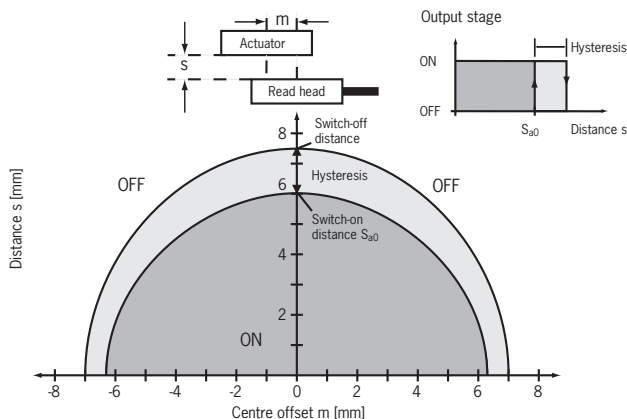
- ▶ The connection cable is only allowed to be extended using EUCHNER plug connectors if adequate consideration is given to EMC during assembly (see page 55). Intermediate terminals are not allowed to be used.
- ▶ Actuator and read head must be fitted so that:
 - ▶ The active faces (front faces) are at the switch-on distance $0.8 \times S_{a0}$ or closer (see technical data) with the safety guard closed.
 - ▶ They are not used as a mechanical stop.
 - ▶ They are positively mounted on the safety guard, e.g. by using the safety screws included.

Safety precautions

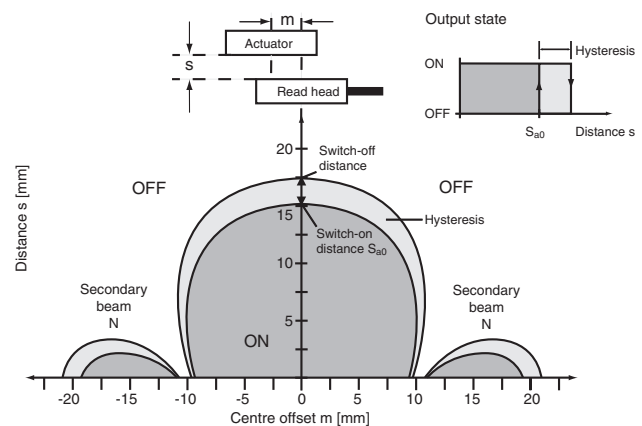
- ▶ If the read head and/or actuator is/are installed flush, the switching distance changes as a function of the installation depth and the safety guard material.
- ▶ On the use of the read head in potentially explosive atmospheres, it is only allowed to disconnect the plug connector when the device is isolated from the power supply.

Typical operating distance

With CES-A-ABA-01 evaluation unit and CES-A-BBA actuator



With CES-A-ABA-01B/CES-A-AEA... evaluation unit and CES-A-BBA actuator



For a side approach direction for the actuator and read head, a minimum distance of $s = 3$ mm must be maintained so that the operating distance of the side lobes is not entered.

Technical data

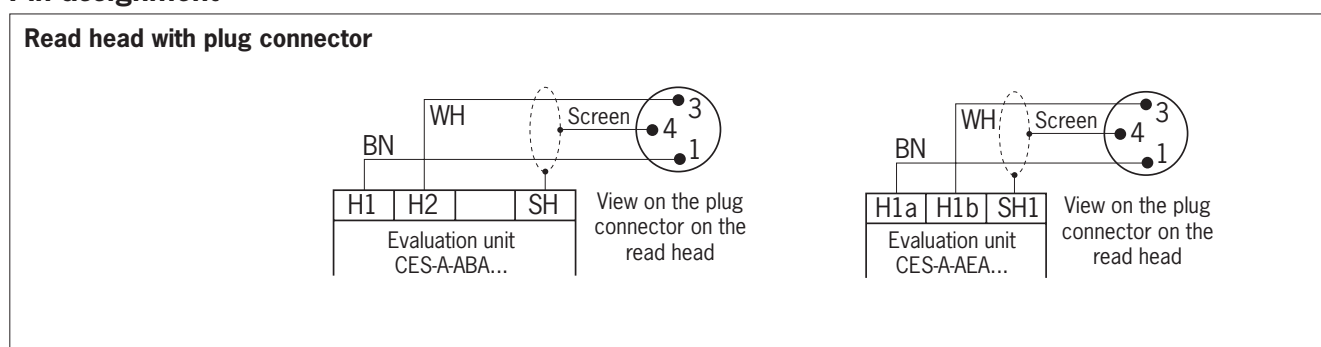
Parameters	Value			Unit
	min.	typ.	max.	
Housing material	Fortron, reinforced thermoplastic, fully encapsulated			
Dimensions	42 x 25 x 12			mm
Weight (incl. 10 m cable)	0.3			kg
Ambient temperature	-25	-	+70	°C
Degree of protection	IP67			
Installation position	Any			
Method of operation	Inductive			
Dynamic data transfer to the evaluation unit	2			kbps
Power supply	Via evaluation unit			
Dwell time ¹⁾	0.5	-	-	s
Operating distance for center offset $m = 0$ ²⁾ (CES-A-ABA-01 evaluation unit with CES-A-BBA)	-	-	23	mm
- Safe switch-off distance S_{ar}	-	-	-	
Cable length $l = 0$ to 25 m	5	6	-	
- Switch-on distance S_{a0}	0.5	1.5	-	
- Switching hysteresis	-	-	-	mm
Cable length $l \geq 25$ to 50 m	4	4,8	-	
- Switch-on distance S_{a0}	0.4	1.2	-	
- Switching hysteresis	-	-	-	
Operating distance for center offset $m = 0$ ³⁾ (CES-A-ABA-01B/CES-A-AEA-04B evaluation unit with CES-A-BBA)	-	-	32	mm
- Safe switch-off distance S_{ar}	-	-	-	
Cable length $l = 0$ to 25 m	10	15	-	
- Switch-on distance S_{a0}	0.5	2	-	
- Switching hysteresis	-	-	-	mm
Cable length $l \geq 25$ to 50 m	8	12	-	
- Switch-on distance S_{a0}	0.4	1.6	-	
- Switching hysteresis	-	-	-	
Connection	M8 plug connector (snap-action and screw terminals), 3-pin			
Connection cable	-	-	50	m

1) The dwell time is the time that the actuator must be inside or outside the operating distance.

2) These values apply for flush installation of the read head and the actuator in aluminum.

3) These values apply for surface installation of the read head and the actuator.

Pin assignment



Ordering table

Article	Order No.
CES-A-LNA-SC	077 715