CES-A-F1B-01B-AS1 (Order no. 094230)

Evaluation unit CES-A-.1B-01B-AS1 for connection to AS-Interface (for 1 read head)

▸ Evaluation unit for direct connection of a CES read head

▸ Connection of a CEM solenoid

▸ LED diagnostic displays

▸ Connection of CET guard locking

▸ Unicode evaluation

Connection of a read head CES

The CES series read heads can be connected to the evaluation unit using an M12 plug connector. The read head is not included with the evaluation unit.

Connection of a read head CEM or CET

The read heads are connected using two M12 plug connectors. Connecting cables with M12 plug connectors are required for the evaluation unit, and connecting cables with M8 plug connectors are needed for the read head. Connecting cables and read head are not included with the evaluation unit. **Notice:** The separate auxiliary power must also be connected.

Versions

Unicode: Only the actuator that undergoes a teach-in operation in the device is recognized.

Actuator

An actuator with programmed code to suit the read head selected is needed.

AS-Interface inputs

D0 – D3 Input IN for read head
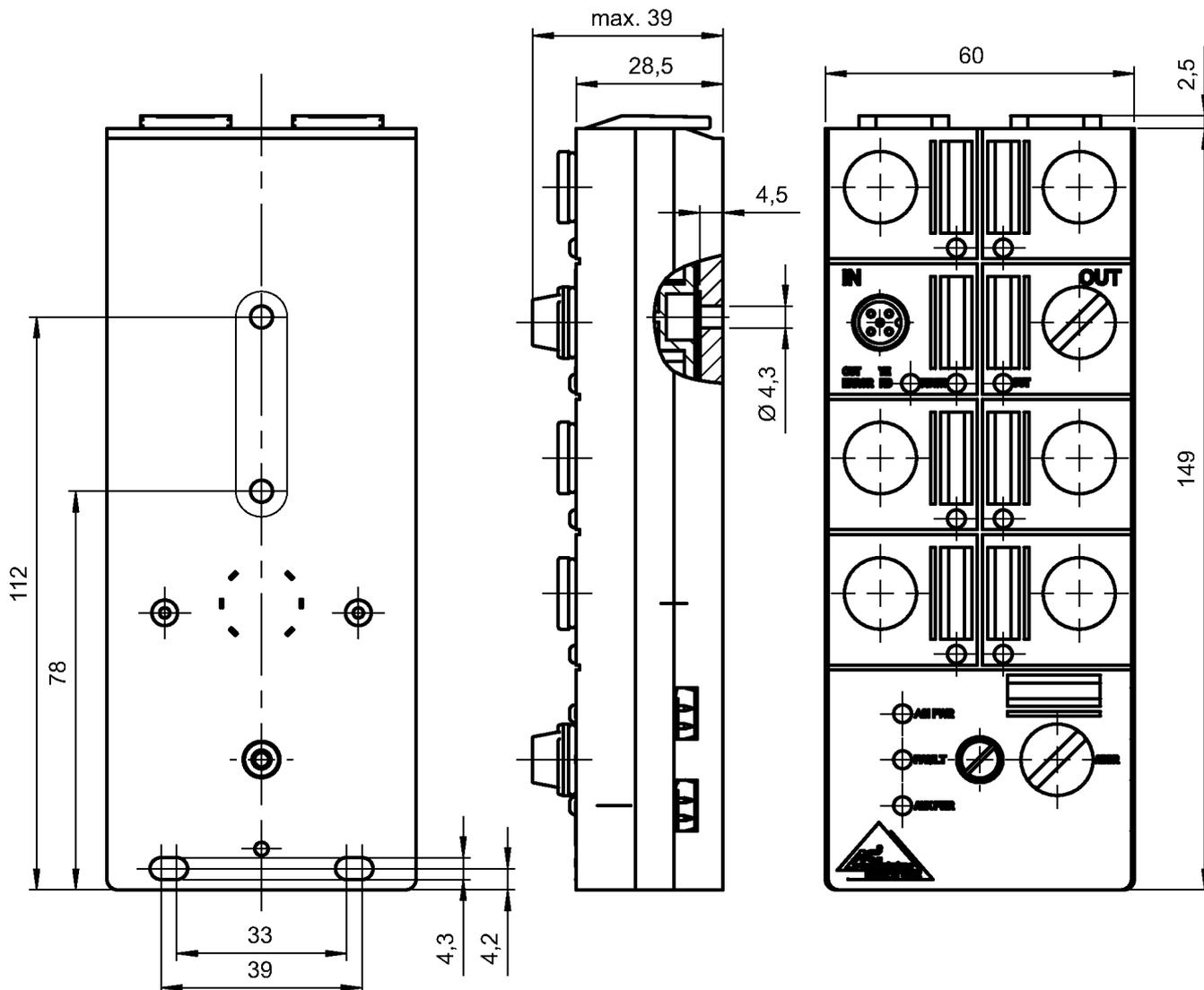Evaluation is performed via a safety monitor.

AS-Interface outputs

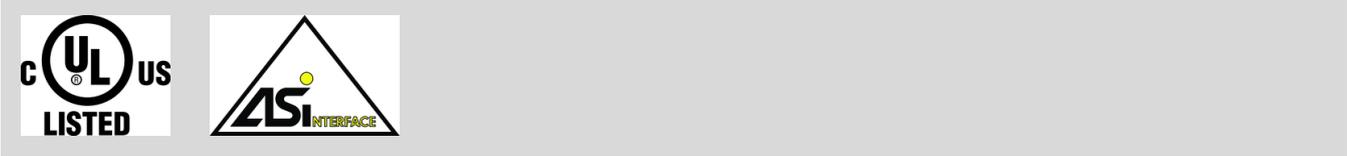D0 Output OUT to control CEM or CET

Principle of operation

The non–contact safety systems CES operate on the basis of a uniquely electronically coded actuator (transponder). The transponder (actuator) receives and processes the electromagnetic field from a transceiver (read head), and the data signals are then sent back to the read head as a response depending on the transponder coding. Power is supplied and data transmitted to the coded actuator by induction using a read head.

Dimensional drawings

Technical data

Approvals

Workspace

Repeat accuracy R	
according to EN 60947−5−2	10 %

Electrical connection values

ASI operating current		max. 100 mA
AS−Interface auxiliary voltage		20.4 … 24 … 26.4 V
Auxiliary current AS−Interface		max. 600 mA
AS−Interface LED		
	green	Power
	red	Fault
AS−Interface protocol		ASi−3
ASI data out		D0 = OUT output
ASI data in		D0 − D3 = evaluation of read heads
AS−Interface slave type		ID−Code: B, EA−Code: 7
ASI voltage		22.5 … 30 … 31.6 V

Mechanical values and environment

Connection type		
	AS−i	Penetration contacts
	Read heads	M12 plug connector
Number of read heads		1 read head per evaluation unit
Ready delay		max. 3 s
Storage temperature		−25 … 70 °C
Response time		
after change in the actuation status		