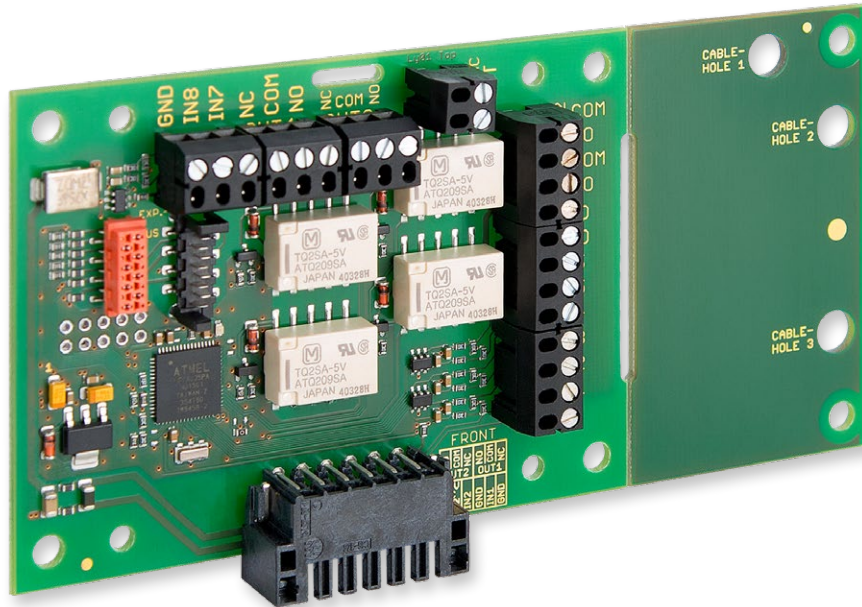


EB8E4A

I/O option module with 8 inputs and 4 outputs



DIN VDE 0834
compliant
Solution

Offline
functionality

Easy
integration

Future-proof
system

Reliability in any situation

With the EB8E4A option module, an Intercom module ET 808A or ET 908H can be expanded to handle an additional eight inputs and four outputs. Therefore, specific applications can be realised with ease.

The EB8E4A, integrated in a Commed Intercom system, makes compliance with the DIN VDE 0834 standard possible and thus improves the safety of detainees, cellmates, and custodians.

For maximum dependability, the EB8E4A is absolutely insensitive to errors like connection problems to the server, an Intercom module in the offline state or a short-circuit caused by connected lighting equipment. Even at a server breakdown, the EB8E4A still recognises the presence of a custodian in the cell, identifies cell and emergency calls and detects sabotage attempts.

If only additional inputs and outputs at an ET 808A/ET 908H are required, the EB8E4A also acts as a basic I/O option module.

Features and highlights

- Allows the construction of DIN VDE 0834 compliant system solutions
- Simple connection to an Intercom module ET 808A/ET 908H
- Eight digital inputs and four relay outputs
- Well-arranged administration via central parameterisation
- Cell and emergency calls with custodian alert
- Registration of custodian presence in the cell
- Easy connection of I/O contacts by means of the removable screw terminals
- In case the server is unavailable, the EB8E4A option module still recognises the presence of a custodian in the cell, identifies cell and emergency calls and detects sabotage attempts
- Protection against vandalism and sabotage (alert)
- In case the EB8E4A option module is unavailable, the Intercom module ET 808A/ET 908H informs the server that a line fault exists
- Simplified wire routing through cable holes
- Modular system for a future-proof investment

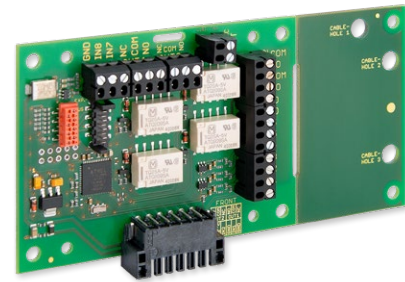
EB8E4A

Technical specifications

Technical data

Inputs:	8 digital inputs for voltage free contacts ¹⁾ (switches, push buttons, relay outputs etc.)
Outputs:	4 x relay outputs (2 changeover and 2 NO contacts) max. 60 W (DC)/60 VA (AC), max. 2 A, max. 60 VDC/30 VAC expected lifetime: min. 10 ⁵ (2 A)/2 x 10 ⁵ (1 A)
Operating temperature range:	–20 °C to +60 °C (–4 °F to +140 °F)
Storage temperature range:	–20 °C to +60 °C (–4 °F to +140 °F)
Connections:	2 expansion bus, 7 screw terminals for I/O, I/O plug
Power supply:	via an ET 808A/ET 908H
Dimensions (W x H x D):	130 x 65 x 15 mm (5.12 x 2.56 x 0.59 in)
Weight incl. package:	approx. 160 g (0.35 lbs)

¹⁾ When the contact is closed, the switch resistance has to be less than 1 kΩ.



System requirements

- GE 300 (min. PRO 800 4.0 build 1002) with G3-GED or
- GE 800 (min. PRO 800 4.0 build 1002) with G8-GED or
- ET 808A (min. V2.5 DSP800A build 2)
- ET 908H (min. PRO 800 8.0, only compatible in IoIP mode)

Extent of supply

- Option module
- Ribbon cable (8-way, 15 cm/5.91 in) for connection to an Intercom module ET 808A/ET 908H
- 4 Spacer, 5.5 x 12 mm (0.22 x 0.47 inch), M3 thread
- 4 Spacer with grub screw, 5.5 x 18 mm (0.22 x 0.71 in), M3 thread
- 4 Screws, M3x8 (Phillips recessed head)
- 4 Torx screws, KA 3 x 6 mm (0.12 x 0.24 in), for mounting within a WS series surface of flush mount box
- Short reference

EB8E4A

Installation instructions

Safety warnings

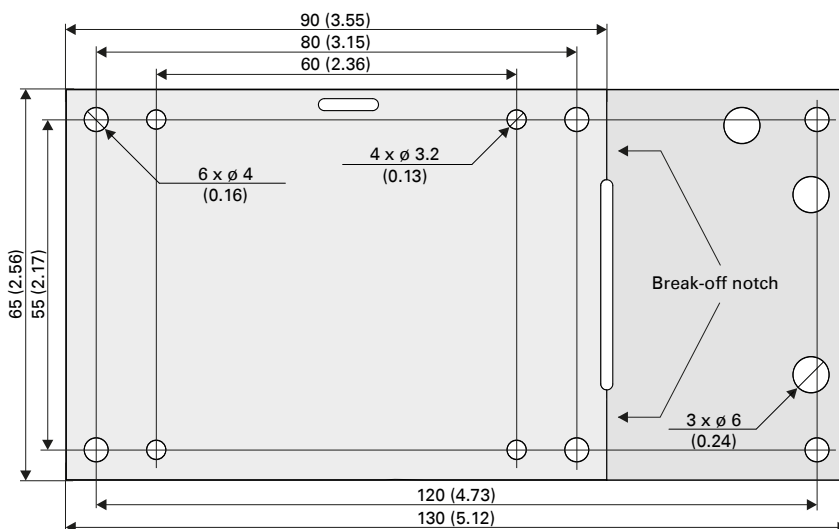
- This device shall be installed or replaced by trained and qualified personnel only.
- Observe the relevant national and local regulations for the installation.
- For installation also note the safety and mounting instructions for the Intercom modules ET 808A or ET 908H.
- All connected circuits shall fulfil the following requirements:
 - Safety Extra Low Voltage (SELV) and Limited Power Source (LPS) according to IEC/EN 60950-1 or
 - ES1, PS2 circuits and Annex Q (Limited Power Source) according to IEC/EN/UL 62368-1
- Only accessories that comply with the device's technical specifications shall be used.
- Before using the device, ensure all cables are connected correctly and not damaged.
- Do not make any unauthorised modifications to the device.

Mounting instructions

- Do not expose the device to extreme temperatures.
- The device must be protected against dust, dirt, humidity and eventual environmental influences using a housing.

Dimensions

Measuring units in mm (in), not to scale!

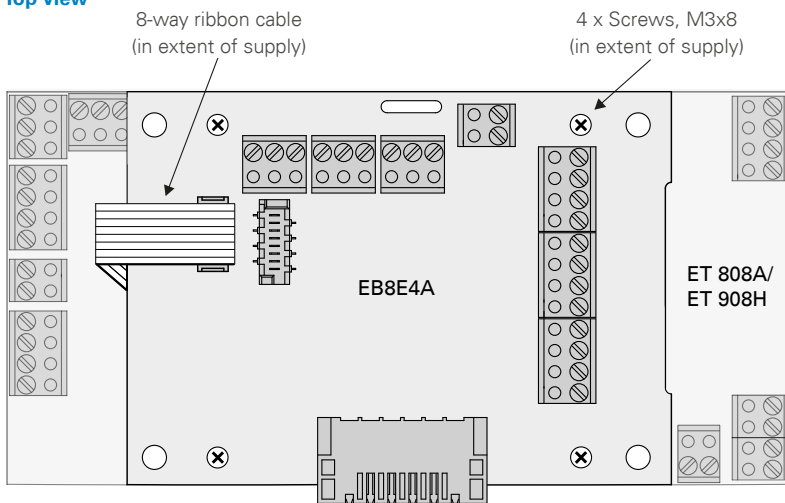


NOTE:

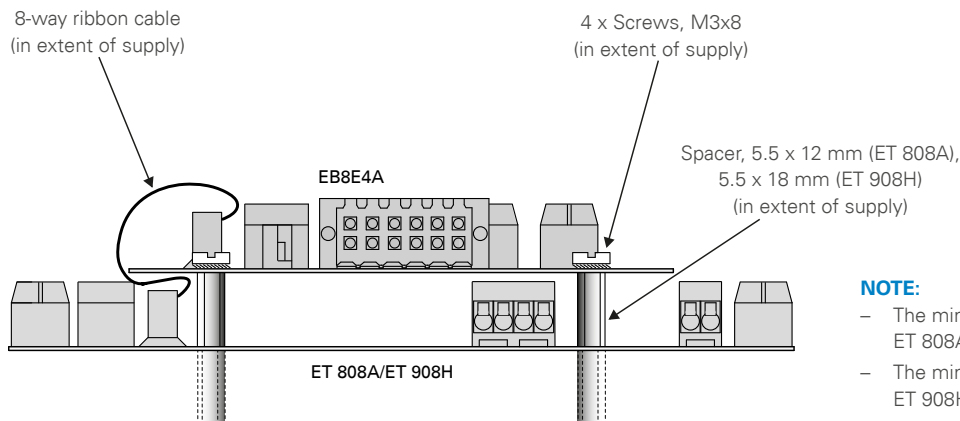
- Option module height with components: 15 mm (0.59 in)
- For use of an EB8E4A together with an ET 808A/ET 908H, the EB8E4A has to be broken at the break-off notch.

Mounting of an EB8E4A on an Intercom module ET 808A/ET 908H

Top view

**NOTE:**

Make sure that the EB8E4A is aligned correctly on an ET 808A/ET 908H (see illustration on the left).

**NOTE:**

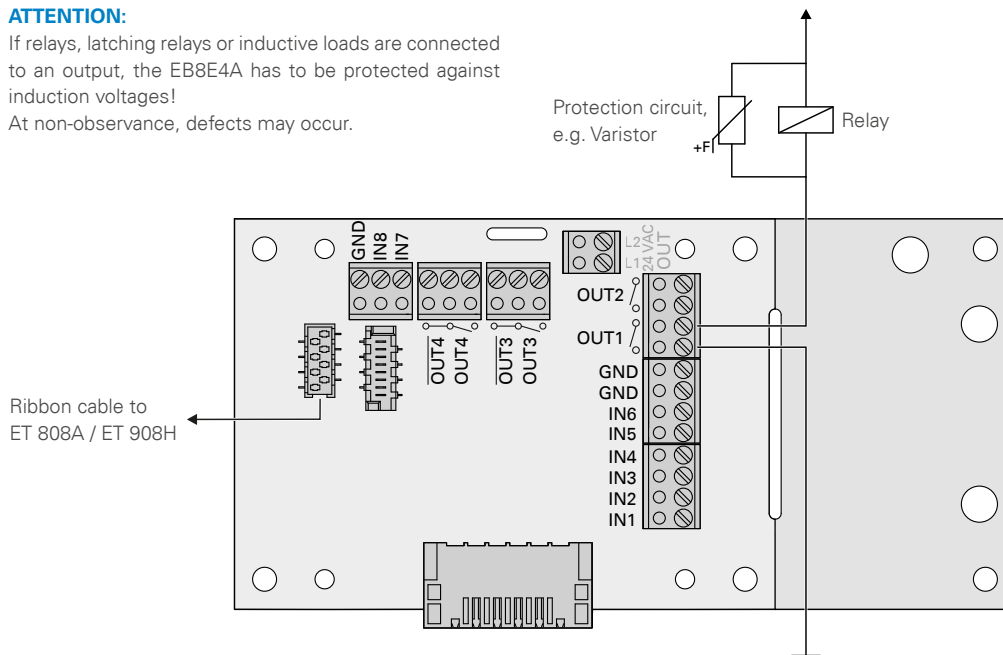
- The minimum length of the spacers between EB8E4A and ET 808A must be 12 mm.
- The minimum length of the spacers between EB8E4A and ET 908H must be 16 mm.

Connection diagram

ATTENTION:

If relays, latching relays or inductive loads are connected to an output, the EB8E4A has to be protected against induction voltages!

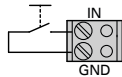
At non-observance, defects may occur.



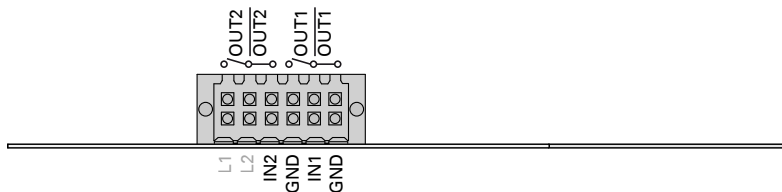
Digital input

NOTE:

In the switching position "ON", the switch resistance has to be less than 1 kΩ at all



I/O connector pin assignment



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The development and manufacturing processes are certified in accordance with **EN ISO 9001:2015**.



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