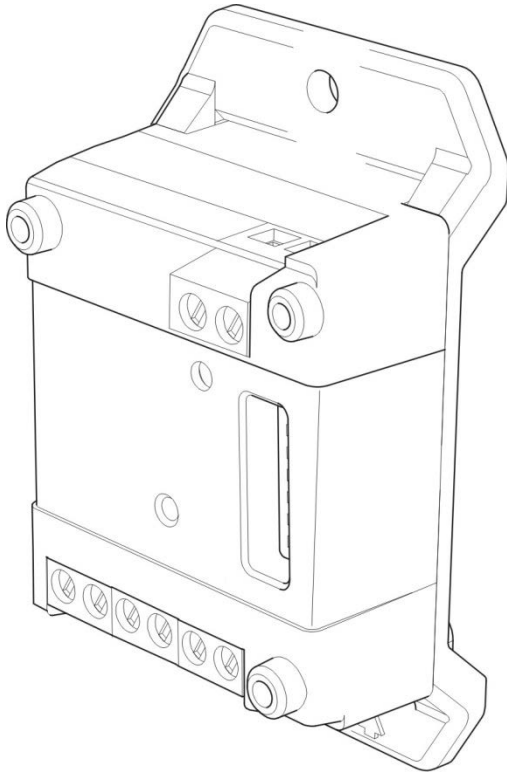


A45E-2 Single Input Module Installation Sheet



Description

The A45E-2 Single Input Module, is an addressable device used to connect a monitored contact to a loop controller. One device address is required.

The module is designed to accept inputs from equipment providing normally open outputs and monitors circuit wiring for both open circuit and closed circuit faults. The module may be used for alarm, supervisory, or monitor type applications.

Up to 127 devices can be assigned to the loop. All devices incorporate a binary DIP switch enabling them to be given a unique address. A red LED indicator illuminates when the module has activated.

Installation

The A45E-2 is shipped from the factory as an assembled module; it contains no user-serviceable parts and should not be disassembled.

Note: This module complies with the requirements of EN 54-18. If the module is used in conditions or circumstances that do not comply with those tested for and allowed in EN 54 18, operation may be impaired, and the supplier will not be liable for any injury suffered or damage caused as a result. You must contact our technical support department for advice if the device is to be used in conditions that differ from those prescribed in EN 54 18.

To install the device:

1. Verify that all field wiring is free of opens, shorts, and ground faults.
2. Make all wiring connections as shown in Figure 1.

Notes:

- If a 2 in. (51 mm) single gang box is used, conduit can enter the electrical box through only one knockout hole.
- If a 2-1/2 in. (64 mm) singlegang box is used, conduit can enter the electrical box through one or both knockout holes.

Mounting

The A45E-2 can be mounted using any of three methods:

- A DIN rail for mounting single/multiple units
- Adaptor plates for mounting in accessory boxes
- A single electrical box

Mounting

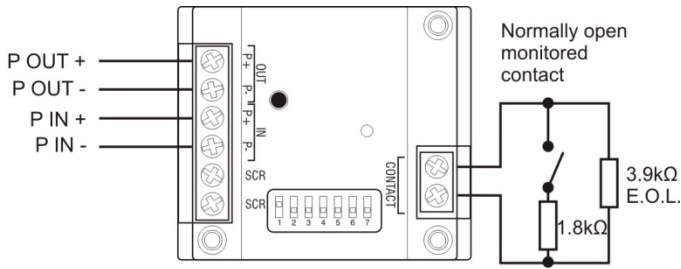
The unit can be mounted in a European 100mm square box. The terminal blocks will accept 14, 16, or 18 AWG wire (0.75, 1.0, 1.5, mm²). Sizes 16 and 18 AWG are preferred.

Wiring

Figure 1 shows connection to a normally open contact with wiring monitored as follows:

- Contact open: Normal
- Contact closed: Alarm
- Wiring open: Fault
- Wiring shorted: Fault
- EOL. resistor: 3900 Ω
- Series resistor: 1800 Ω

Figure 1: Wiring for the A45E-2 Single Input Module



Setting the address

The A45E-2 contains a seven-segment DIP switch. The switch is used to set the device address in binary code. The switch may be set to represent any address from 1 to 127.

In the ON position, a switch represents its code value. In the OFF position it represents a zero. See the table below.

Switch number	1	2	3	4	5	6	7
Code value	1	2	4	8	16	32	64


To arrive at the address number of a device, add the code values of all switches that are in the ON position: for example switches 2, 3, and 6 set to ON represent address 38 (2 + 4 + 32).

Specifications

Application	Indoor use
Operating environment	
Temperature	-10 (±3) to +55 (±2)°C
Relative humidity	20 to 95% noncondensing
Storage temperature	-10 (±3) to +55 (±2)°C
Indication	LED (red) flashing on activation
IP Rating	IP20
Dimensions (W x H x D)	45 x 78 x 28mm
Weight	40 g
Operating voltage	20 volt pulsed analogue loop (19.5 VDC to 20.5 VDC). Max line drop 4 VDC
Standby current	600 µA

Regulatory information

This section includes both regulatory information and a summary on the declared performance according to the Construction Products Regulation 305/2011. For detailed information refer to the product Declaration of Performance.

Certification	
Certification body	0370
Declaration of Performance number	360-5211-0599
Year of first CE marking	09
Product Identification	A45E-2
Intended use	See DoP point 3
Essential characteristics	See DoP point 9
Manufacturer	United Technologies Safety System Co., Ltd. 80, Changjiang East Road, QETDZ, 066004 Qinhuangdao HEBEI China Authorized EU manufacturing representative: UTC Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands

European Union directives 1999/5/EC (R&TTE directive): Hereby, UTC Fire & Security declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

Contact information

For contact information, see www.utcssecurityproducts.eu.