



PANASONIC

Panasonic 4461 TVK addressable I/O unit

Product code 50017 · Emergency lighting > Field devices

Addressable multi-function I/O unit with short-circuit isolator: supervised input (also usable as a zone input for conventional detectors), opto-isolated input, general-purpose input and two relay outputs in an IP65 enclosure.

- Supervised input for conventional detectors or general use (Z/Ino)
- Opto-isolated input (6–30 V DC) and general-purpose input
- Two programmable relay outputs, 2 A / 30 V DC
- Built-in short-circuit isolator, automatic addressing
- IP65 enclosure, approved to EN 54-17 and EN 54-18
- Additional terminals for the emergency lighting supply voltage (TVK)



Product description

Panasonic 4461 is an addressable multi-function I/O unit with a built-in short-circuit isolator. The unit is connected to the COM loop, from which it also takes its operating voltage, and all inputs and outputs are programmed with EBLWin.

Inputs and outputs

- Supervised input Z/Ino: either a zone input for conventional detectors and manual call points (short-circuit and open-circuit monitoring in accordance with EN 54-13, 10 µF end-of-line capacitor, max. 32 alarm points) or a general-purpose input for an NO/NC contact. An optical beam detector or a flame detector, for example, can also be connected via the input.
- Opto-isolated input In1, activated by an external voltage of 6–30 V DC.
- General-purpose input In2 for an NO/NC contact, supervised with a 33 kΩ end-of-line resistor.
- Two relay outputs Re0 and Re1 (NO/NC), for example for closing fire doors.

Installation

The unit is surface mounted on a wall or ceiling. Cables are brought in through the membrane entries of the housing; cable glands are not included. Addressing takes place automatically with EBLWin or manually with the 4414/4414E addressing tool. The short-circuit isolator is in use in Advanced mode (EBL512 G3 and EBL128 from version 2.4, EBLOne from version 3.3). In NORMAL mode, the unit works like model 3361. The 4463 kit is available for DIN rail mounting.

TVK version

According to the product information, the TVK version has additional terminals for the emergency lighting supply voltage. In the MX emergency lighting system, the 4461/4462 I/O units are used for phase monitoring, among other things: the phase monitoring device is connected to the supervised input Z/Ino of the unit, so that the emergency luminaires can be activated in the event of a phase failure. The control output of the MX Power Box is also connected to an input of the 4461/4462 unit.

Technical data

Product code	50017
Manufacturer	Panasonic
Product group	Emergency lighting > Field devices
Dimensions	110 × 110 × 49 mm
Weight	188 g
Operating temperature	-10...+50 °C
Storage temperature	-20...+60 °C
Humidity	Max. 95% RH, non-condensing
IP rating	IP65
Colour	RAL 9010
Material	Polypropylene (Fibox JB 6 G)
Operating voltage	12–30 V DC (15–30 V when used as a zone input), nominal 24 V DC
Current consumption (quiescent)	≤ 4.3 mA
Current consumption (alarm)	≤ 15 mA
Inputs	1 supervised (zone or general input), 1 opto-isolated, 1 general input
Outputs	2 relays NO/NC, 2 A / 30 V DC
Address range	001–253
Short-circuit isolator	Yes (Advanced mode)
Mounting	Surface mounting on wall or ceiling
Connection	Screw terminals, conductor 0.28–1.5 mm ²
EN 54 approval	EN 54-17, EN 54-18
CPR	0786-CPR-21579
Standards	VdS 2344, VdS 2504, EN 61000-6-3, EN 50130-4, EN IEC 63000

Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

Technical datasheet: Panasonic 4461 TVK addressable I/O unit

Product brochure: Panasonic 4461 TVK addressable I/O unit

Technical datasheet (series): MX25, MX40 and MX Light

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-4461-i-o-tvk-osoiteyksikk/