

**BEZPIECZNIK ELEKTRONICZNY 4-KANAŁOWY**

PISA-M

PISA-M-4ADJ

Zabezpieczenie 4 kan. 1-8A Adjustable cur

- 4 kanały (4x 1-8 A)
- Alarm wspólny lub indywidualny
- Charakterystyka szybka lub wolna

**OPIS PRODUKTU**

Bezpiecznik elektroniczny Pulse PISA-M to 4-kanałowy bezpiecznik montowany na szynie DIN, przeznaczony do systemów 12 i 24 V DC. Jest bardzo mały, ma szerokość zaledwie 22,5 mm.

**SPECYFIKACJA TECHNICZNA**

<b>Back-feeding loads</b>	30 V DC
<b>Dopuszczenia</b>	CE, UL 61010-1
<b>Głębokość</b>	98 mm
<b>Input connector</b>	Push-In
<b>Masa</b>	0,1 kg
<b>Materiał obudowy</b>	Plastikowy
<b>MTBF (IEC 61709)</b>	1 142 000 h 4x5 A 40 C
<b>Napięcie zasilania DC (max)</b>	30 V DC
<b>Napięcie zasilania DC (min)</b>	9,6 V DC
<b>Output connectors</b>	Push-In
<b>Prąd wyjściowy / kanał</b>	Channel 1-4 :1, 2, 3, 4, 6, 8 A
<b>Prąd wyjściowy max.</b>	20 A
<b>Przekrój max. kabla</b>	2,5 mm <sup>2</sup>
<b>Rodzaj zacisków</b>	Sprężynowy samozaciskowy
<b>Spadek napięcia na półprzewodniku</b>	130 mV
<b>Sprawność</b>	98 %
<b>Stopień ochrony IP</b>	IP20

<b>Szerokość</b>	23 mm
<b>Wysokość</b>	104 mm
<b>Żywotność</b>	268 000 h 4x5 A 40 C

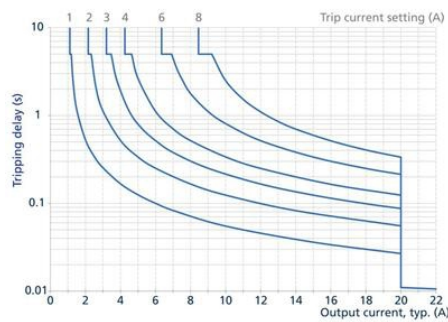


Fig. 6-2: Tripping delay depending on current slow tripping characteristic

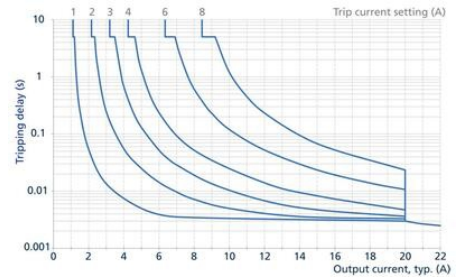
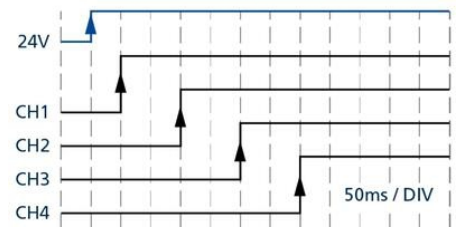
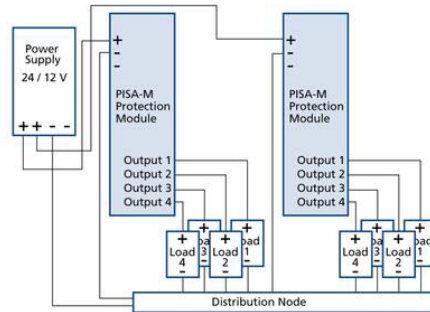
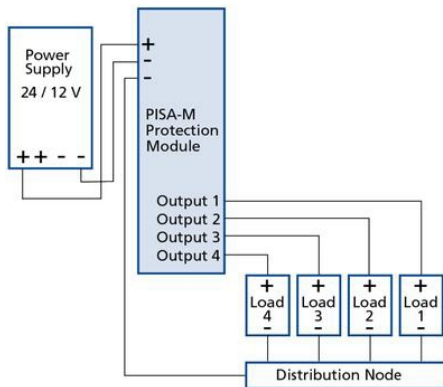


Fig. 6-1: Tripping delay depending on current fast tripping characteristic



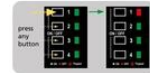
- A Input Terminals**  
Identical poles are internally connected.  
(+) 1.1 Positive input pole  
(-) 1.2, 1.3 Negative input pole
- B Output Terminals**  
(+) 2.1 Channel 1 positive output pole  
(+) 2.2 Channel 2 positive output pole  
(+) 2.3 Channel 3 positive output pole  
(+) 2.4 Channel 4 positive output pole
- C Control Signal Input**  
(+) 3.1 Signal input positive pole  
(-) 3.2 Signal input negative pole  
Signal input can be used to send reset signal (1 active) or for data communication using Digital Coded Interface.
- D Status Signal Output**  
(+) 3.3 Signal output positive pole  
(-) 3.4 Signal output negative pole  
Signal output can be set to several operation modes.
- E Channel Control Buttons**  
Press of single button to toggle selected output channel ON / OFF  
Required duration of button press can be configured  
Press of long press of single button to reset selected channel  
Press of button combinations to enter configuration modes  
Note: See user manual for more information.
- F Output Channel Status LEDs**  
Green: Output channel ON  
Yellow: Output channel overload – prewarning before tripping channel  
Red: Output channel turned OFF (manually or remotely)  
Red (flashing): Output channel tripped due to overload of this channel  
Red (double-flashing): Output channel tripped due to device overload protection or power supply protection, see chapter 9 and 10  
LED OFF: Device is not powered  
Note: For other blinking codes, see user manual
- G QR code for direct access to documentation**

Fig. 14-1: Front side

## 5. Turn Output Channels ON or OFF

Each output channel can be switched ON and OFF individually. The required duration of button press can be configured, see chapter 10 "Button Reaction Style".

- Output channel is ON → LED lights up green
- Output channel is OFF → LED lights up red



- Press the Channel Control Button (CCB) for the output channel to be modified depending on the selected button reaction style:
  - 50 ms in standard mode or
  - 1 s in long press mode
- The output channel will switch between ON and OFF.

## 6. Check Current Tripping Setpoint of Each Output Channel

Each LED indicates the current tripping setpoint for each output channel. For example: LED 1 shows setting of output channel 1.

- The number of flashes indicates current setting in ampere. For example: LED 1 flashes 4 x, set current tripping setpoint for output channel 1 is 4 A.
- The sequence will be shown two times.
- The device exits the checking mode and will return to regular operation.



- Press CCB1 and CCB4 simultaneously for 50 ms.
- Each LED will indicate the current tripping setpoint for each output channel by flashing green.
- Pressing any button during LED flashing stops the checking mode immediately.

## 12. Select Communication Mode

- The device will exit setting mode automatically after 4 s inactivity.

The device is equipped with two signal ports. Status signal output (pin 3.1 – 3.2) and signal control input (pin 3.3 – 3.4). These parts can be configured as follows:

### Tripping Alarm

- Status Signal Output ON → one or more output channels are tripped
- Status Signal Output OFF → no output channel tripped

### Digital Coded Interface (DCI)

For more detailed information regarding DCI mode, please refer to the product datasheet.

### Output Channel Off Alarm

Switch closes when one or more channels are tripped or manually turned off.

- Status Signal Output ON → one or more output channels are tripped / turned off
- Status Signal Output OFF → all output channels are turned on

### OK-Signal

Switch closes if all output channels are turned on.

- Status Signal Output ON → all output channels are turned on
- Status Signal Output OFF → one or more output channels are tripped / turned off

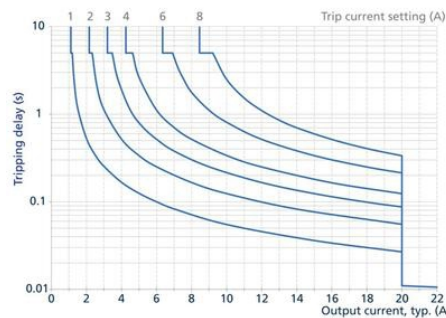
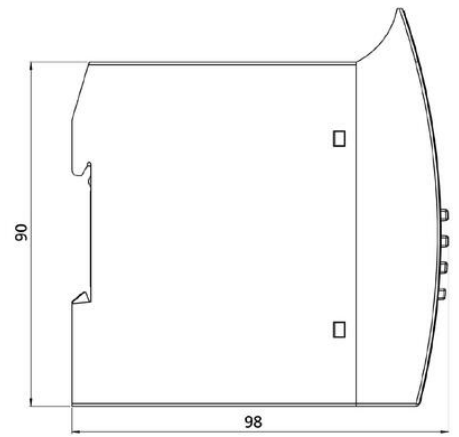
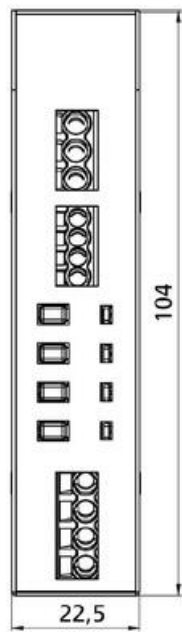


Fig. 6-2: Tripping delay depending on current slow tripping characteristic

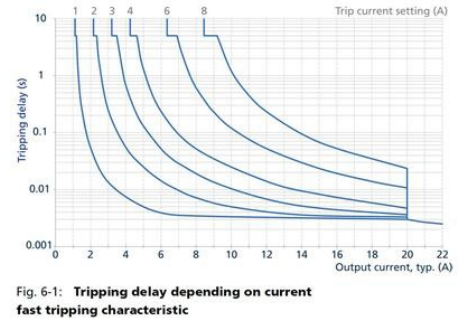


Fig. 6-1: Tripping delay depending on current fast tripping characteristic

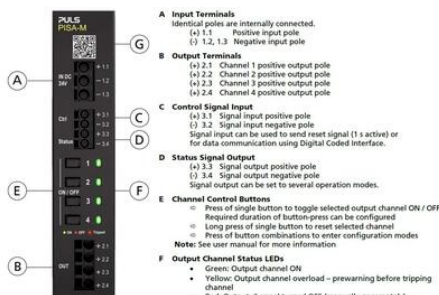
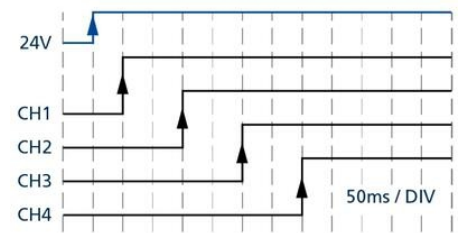
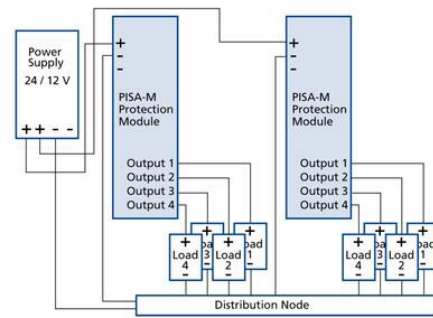
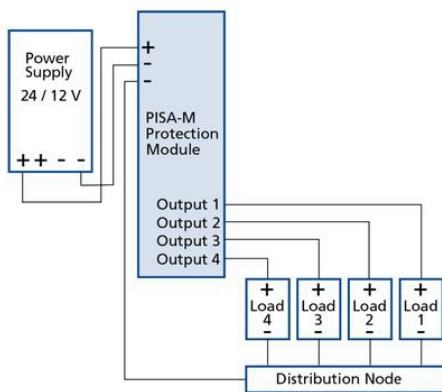


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- Press CCB1 and CCB4 simultaneously for 50 ms.
- ✓ Each LED will indicate the current tripping setpoint for each output channel by flashing green.
- Pressing any button during LED flashing stops the checking mode immediately.

## 12. Select Communication Mode

- The device will exit setting mode automatically after 4 s inactivity.

The device is equipped with two signal ports. Signal status output (pin 3.1 - 3.2) and signal control input (pin 3.3 - 3.4). These ports can be configured as follows:

### Tripping Alarm:

Switch closes when at least one or more output channels are tripped.

- Status Signal Output ON → one or more output channels are tripped
- Status Signal Output OFF → no output channel tripped

### Digital Coded Interface (DCI):

For more detailed information regarding DCI mode, please refer to the product datasheet.

### Output Channel Off Alarm:

Switch closes when one or more channels are tripped or manually turned off.

- Status Signal Output ON → one or more output channels are tripped if turned off
- Status Signal Output OFF → all output channels are turned on

### OK Signal:

Switch closes if all output channels are turned on.

- Status Signal Output ON → all output channels are turned on
- Status Signal Output OFF → one or more output channels are tripped / turned off

