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PISA-M

PISA-M-4ADJ ECB 4x1-8A Adjustable current



- 4 channels (4x1-8A)
- · Only 22.5mm width
- · Joint or individual alarm
- Fast or slow characterization



PRODUCT DESCRIPTION

- 4 channels
- Only 22.5mm wide
- Each channel can be adjusted to: 1/2/3/4/6/8 A (max 20 A total)
- You can choose fast or slow characteristics (e.g. slow for equipment that requires starting current)
- Press connection
- Local or remote recovery

The courses can be turned on and off using the 4 buttons on the front. The track is on if it lights up green and off if it glows red with a steady light.

The 4 courses start at about 100 ms intervals.

The factory settings are that all channels are connected with the setting 1A and fast characteristic.

If a channel is tripped, the respective LED flashes red once for overload or short circuit and red twice for (a) the total overload protection of 20 A for sec is activated or (b) the power supply protection mode is activated. For more information, see the User's Guide, Section 9. To reset the course, press and hold the respective course button for 1 sec.

To check what the different channels are set to in the Amp level:

Press buttons 1 and 4 at the same time for a short time (50 ms).

LED 1 will then flash green quickly for the number of Amps set (once for 1 A, twice for 2 A, etc.).

To change the different Amp levels on the different channels: (Max. 20 A total) Press buttons 1 and 4 at the same time for 1 sec (all channels will be orange)

Short press button 1 (50 ms), then press within 4 sec. the number of times corresponding to the desired gain level, e.g. 3 times corresponds to 3 A. Then it flashes quickly 3 times (green) (in 2 sequences) Then press button 1 for 1 sec. to save. It then shines with a solid green light. Repeat for channels 2-3 and 4. To exit the programming mode, press buttons 1 and 4 at the same time for a short time (50 ms).

To see and change whether the fuse is set to fast or slow characterization:

Press buttons 1 and 3 at the same time for a short time (50 ms)

LEDs 1-4 will then flash green at a fast speed for fast or slow characteristics (daytime running lights)

Press buttons 1 and 3 again at the same time for a short time (50 ms) (within 4 sec). This changes the characteristic.

This is automatically saved.

If you do not press any button within 10 seconds, you will automatically exit programming mode.

Clear recovery

Alarm contact From the factory, it is delivered as a trippy all Guide.	arm. See the 4 different alarm options below. For more information, see Section 12 of the User's	
Guide.		
You can connect multiple PISA-M modules in parallel to cre supply.	eate multiple courses. Each (+) on the PISA-M module must be connected directly to the power	
We recommend a free space of 40 mm above and 30 mm b	pelow. 0 mm on the sides, 15 mm if the component on the side emits heat (e.g. power supply).	
Properties: (otherwise see section 6 of the data sheet) Sensitivity: < 2ms - 0.22 sec in case of short circuit and 1.5 x In. Slow: < 10 ms - 1.1 sec in case of short circuit and 1.5 x In.		
TECHNICAL DATA		
OUTPUT DATA		
Output current max	20 A	
Voltage drop over semiconductor	130 mV	
Efficiency	98 %	
DIMENSIONS		
Width	23 mm	
Depth	98 mm	
Height	104 mm	
CONNECTION DATA		
IP class	IP20	
APPROVALS		
Approvals	CE, UL 61010-1	
ADDITIONAL DATA		
Weight	0.1 kg	

Push-In

If a circuit has tripped, you can apply a voltage of 10-30 V DC (under 1 sec) to terminals 3.3 (+) and 3.4 (-), once the cause has been found and the fault has

been fixed. Other channels are not affected, regardless of whether they are connected or disconnected.

Output connectors

Output current per channel	Channel 1-4:1, 2, 3, 4, 6, 8 A
Back-feeding loads	30 V DC
Cable size stranded max	2.5 mm ²
Clamp type	Push in
Input connector	Push-In
Input voltage dc max	30 V DC
Input voltage dc min	9.6 V DC
Life span	268 000 h 4x5 A 40 C
Material protection	Plastic
MTBF (IEC 61709)	1 142 000 h 4x5 A 40 C



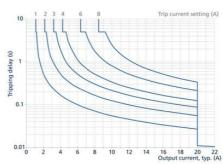
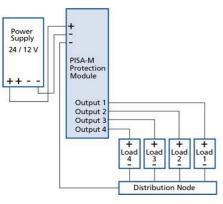
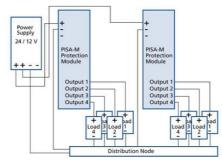
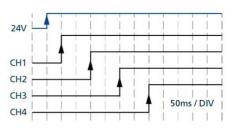


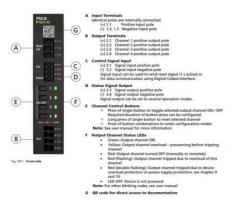


Fig. 6-2: Tripping delay depending on current slow tripping characteristic









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

- ⇒ 50 ms in standard mode or ⇒ 1 s in long press mode

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.

- Press CCB1 and CCB4 simultaneously for 50 ms.
 Each LED will indicate the current tripping sets by flashing green.

12. Select Communication Mode

Digital Coded Interface (DCI): For more detailed information regarding DCI mode, please refer to the product of

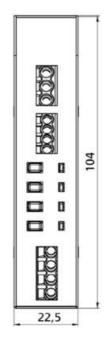
For more detailed information regarding put imode, piesse refer to the product Channel Off Alarm:

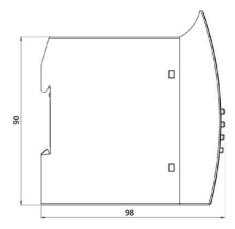
Switch doses when one or more channels are tripped or manually turned off,

Status Signal Output ON — one or more output channels are tripped it turned on

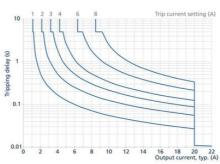
Status Signal Output OFF — all output channels are turned on

Status Signal Output ON
 all output channels are turned on
 Status Signal Output OFF
 one or more output channels are tripped / 1





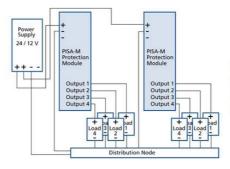


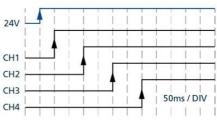


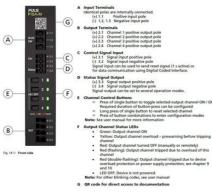
Tripping d 2 4 6 8 10 12 14 16 18 20 22 Output current, typ. (A) 0.001

Fig. 6-1: Tripping delay depending on current fast tripping characteristic Fig. 6-2: Tripping delay depending on current slow tripping characteristic

24 / 12 V PISA-M Protection Module Output 1 Output 2 Output 4 Distribution Node







B-

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

6. Check Current Tripping Setpoint of Each Output Channel

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

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



