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PISA-M PISA-M-406



- 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

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.

Alarm contact From the factory, it is delivered as a trippy alarm. 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 create multiple courses. Each (+) on the PISA-M module must be connected directly to the power supply.

We recommend a free space of 40 mm above and 30 mm below. 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 $1.5 \times ln$. Slow: < 10 ms - 1.1 sec in case of short circuit and $1.5 \times ln$.

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
ADDITIONAL DATA	
Weight	0.1 kg
Output connectors	Push-In

Output current per channel	Channel 1-4 : 6A
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



Press the Channel Control Button (CCB) for the output cha modified depending on the selected button reaction style ⇒ 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.

mber of flashes indicates current setting in ampere. mple: LDD 1 flashes 4 x, set current tripping setpoint for output channel 1 is 4 A. uncer will be shown two times. wice exits the checking mode and will return to regular operation. 1. The n For es 2. The se 3. The d

⇒ Press CCB1 and CCB4 simultaneously for 50 ms.
 ✓ Each LED will indicate the current tripping setp by flashing green.



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fast tripping characteristic









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22. Select Communication Mode 0 The device will exit setting mode automatically after 41 inactivity. The device will exit setting mode automatically after 41 inactivity. The device will exit setting mode automatically after 41 inactivity. Will be available of the setting and a point. Signal status output (pin 3.1 - 3.2) and signal control input (pin 3.3 - 3.4). Wight device with a state one or more output channels are tripped. • Status Signal Output OFI - one or more output channels are tripped. Object Good Interface (DOI) Torm ore Statial formout on or more changed ring DCI make, please refer to the product dustakeet. Output Cohomic Off Alarm: Natiol Good More and and the set tripped or manually turned off. • Status Signal Output OFI - one or more output channels are tripped formation off • Status Signal Output OFI - one or more output channels are tripped formed off • Status Signal Output OFI - one or more output channels are tripped formation off • Status Signal Output OFI - one or more output channels are tripped formation off • Status Signal Output OFI - one or more output channels are tripped formation off • Status Signal Output OFI - one or more output channels are tripped formation off. • Status Signal Output OFI - one or more output channels are tripped formation off.



