

MICO PRO®

MODULAR CURRENT MONITORING

Mico Pro is Murrelektronik's innovative current monitoring system. This modular system enables you to adapt Mico systems to suit specific applications while meeting both space and cost requirements.

Mico Pro guarantees reliable a power supply system. It consistently monitors all load and control currents and identifies critical moments at the right time. The patented tripping process that follows the rule of "as late as possible, as early as necessary" assures optimum machine availability while the integrated potential distribution significantly declutters the switch cabinet wiring.



Mico Pro stands for:

Modularity – use only what you need for each installation

Integrated Potential Distribution – significantly simplifies cabinet wiring

Practical – no tools required for assembly

Diagnostics – LEDs on each module or via the PLC

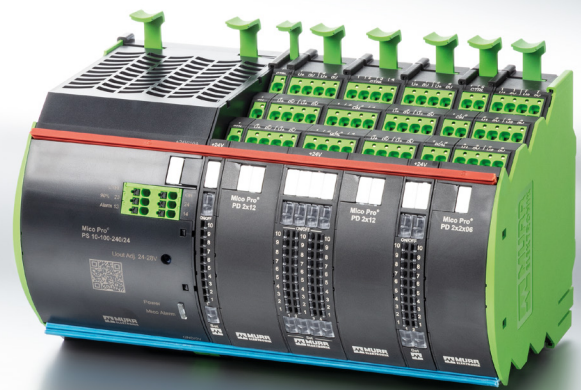
Channel-specific Switching – replaces the coupling level

Full Power – integrated AC/DC power supply

MICO PRO®

Murrelektronik offers AC/DC power supplies that have been specifically designed to be integrated in Mico Pro stations. The power supply replaces an existing power supply in the cabinet and increases the available space.

By using our bridging system, the power supplies can be mounted in just a few steps reducing installation time and costs.



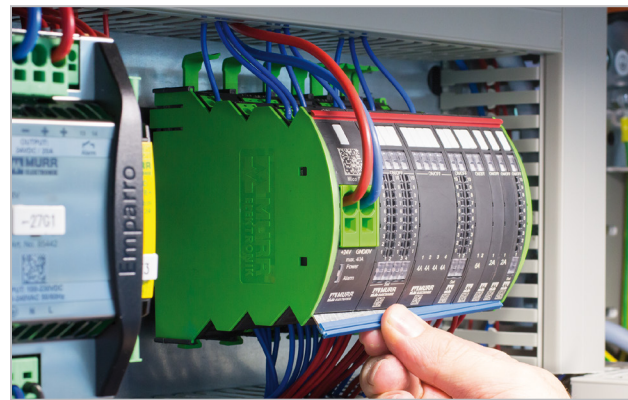
MODULARITY: Precise down to the last channel

- Modular system for 12 and 24V DC operating voltages
- Tool-free assembly for a closed system
- Fixed modules with 1, 2 or 4 channels for tripping currents of 2, 4, 6, 8, 10 and 16A
- Flex modules with 1, 2 or 4 channels for tripping currents of 1-10A or 11-20A - adjustable in 1A increments with the press of a button
- Minimum space required - modules are 8, 12 or 24mm wide



PRACTICAL FUNCTIONS IN THE DETAILS

- Channel current monitoring (up to 20A) in a modular system
- Label plates keep the cabinet layout clear and simple
- High inrush capacity (up to 30mF) per channel at full load
- Compatible with 5A power supplies
- Time delayed start of individual channels on multiple-channel modules to prevent current peaks



CONVENIENT: Tool-Free Assembly

- Innovative, two rail bridging system connects the system
- Trim to length with diagonal cutters and plug into place
- Signal contacts for diagnostics and control signal via lateral spring contacts
- Spring clamp terminals
- Clear view of all label plates and status LEDs



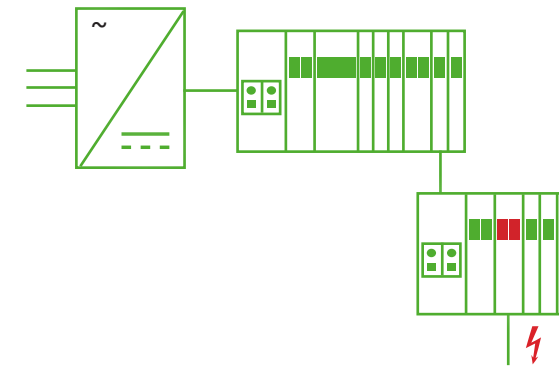
DIAGNOSTICS: On the module or via the controls

- LED status display on each channel
- Group diagnostics on the power module for the entire system
- Modules with flexible settings offer channel-specific diagnostic signals
- 90% early warning
- Reactivation of tripped channels with the press of a button or via control signal



FULL POWER: Integrated Power Supply

- Eliminate your existing power supply and save space
- Full range of functions: group alarm, 90% early warning, control signal for remote control
- Fast installation with bridges
- Supplies up to 20A (2 x 10A) with parallel mode
- High efficiency



CASCADED DESIGN: Fully selective

Another Mico Pro station can be connected on a Mico channel with a tripping current of more than 10A



PRECISE CHANNEL SWITCHING:

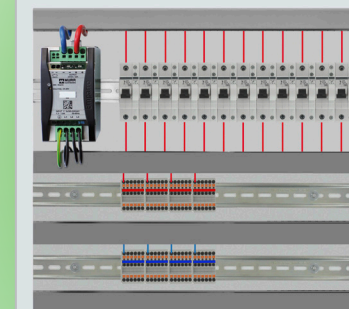
Replaces the coupling level

- Flex modules have a channel-specific switching function via a PLC signal
- Implementation of short switching frequencies (up to 10Hz) as well as longer standby periods (e.g. for machine areas during non production times)

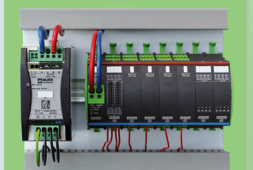
INTEGRATED: Built in potential distribution

- 24V and 0V Connection options on every channel
- External terminals are a thing of the past - the 0V/GND potential is connected by Mico Pro
- Declutters installations, reduces wiring efforts, saves cabinet space
- Connect up to 2 x 12 potentials with potential distributors

HIGH TOTAL COST



SPACE & COST SAVING



COMPACT

Power Module	Description	Article Number	
Mico Pro PM 24V DC/40A	Power Module, 24V DC, max. 40A	9000-41190-0000000	
Mico Pro PS 10-100-240/24	Switch-mode power supply single phase 10A	9000-41190-0000110	
Mico Pro PS 5-100-240/24	Switch-mode power supply single phase 5A	9000-41190-0000105	
Modules with Fixed Tripping Current	Number of Channels	Tripping Current	Article Number
Mico Pro Fix 1.2	1	2A	9000-41011-0200000
Mico Pro Fix 1.4		4A	9000-41011-0400000
Mico Pro Fix 1.4 CL2		4A	9000-41011-0400001
Mico Pro Fix 1.6		6A	9000-41011-0600000
Mico Pro Fix 1.8		8A	9000-41011-0800000
Mico Pro Fix 1.10		10A	9000-41011-1000000
Mico Pro Fix 1.16		16A	9000-41011-1600000
Mico Pro Fix 2.2		2	2A
Mico Pro Fix 2.4	4A		9000-41012-0400000
Mico Pro Fix 2.6	6A		9000-41012-0600000
Mico Pro Fix 4.2	4	2A	9000-41014-0200000
Mico Pro Fix 4.4		4A	9000-41014-0400000
Mico Pro Fix 4.4 CL2		4A	9000-41014-0400001
Mico Pro Fix 4.6		6A	9000-41014-0600000
Modules with Adjustable Tripping Current	Number of Channels	Tripping Current	Article Number
Mico Pro Flex 1.10	1	1-10A in 1A Increments	9000-41091-0101000
Mico Pro Flex 1.20		11-20A in 1A Increments	9000-41091-1102000
Mico Pro Flex 2.10	2	1-10A in 1A Increments	9000-41092-0101000
Mico Pro Flex 4.10	4		9000-41094-0101000
Accessories	Description	Article Number	
Mico Pro 2x12	2 X 12 Potential Distributors, 20A max.	9000-41000-0000212	
Mico Pro 2x2x06	2 X 2 x 06 Potential Distributors, 2 x 20A max.	9000-41000-0002206	
Mico Pro 2 x Blue	Unlimited expansion, 40A max., 500mm length	9000-41000-0000000	
Mico Pro 2 x Red		9000-41000-0000001	
Mico Pro 1 x Blue, 1 x Red		9000-41000-0000002	
Packages	Description	Article Number	
Power Pack Mico Pro	Mico Pro PM + 2x Mico Pro Flex 4.10 + Mico Pro Plug-In link	9101200	
Power Pack PS5	Mico Pro PS 5-100-240/24 + 1x Mico Pro Flex 2.10 + Mico Pro Plug-In link	9101201	
Power Pack PS10	Mico Pro PS 10-100-240/24 + 1x Mico Pro Flex 4.10 + Mico Pro Plug-In link	9101203	

 Models with NEC Class 2 Certification



Build your own Mico Pro® online
micopro.murrelektronik.com/#/en-GB