

# Impulse

## NEWS

### RATIONIK®

Under the term RATIONIK® we produce industry-oriented system solutions whose prime objective is to exploit the effects of rationalization. We work mainly in the fields of project engineering, assembly and production, commissioning, troubleshooting and logistics. In this way, we can devise a specific solution for your requirements.



### APPLICATIONS

- Plant construction
- Process automation
- Machine tools
- Packaging machines
- Conveyor technology

### YOUR BENEFITS

- Up to 30 % space savings
- Universally adaptable for all usual current ranges
- Low power dissipation
- Spring clamp technology
- Status display with design assistance
- No current limitation during operation as defined in EN61131-2
- Combined signal output on potential-free contact
- Proven bridging system
- Optimal identification marking
- UL in preparation

## MICO power control

### Improves machine uptime

The following standards are requirements for 24 V DC (PELV, SELV) power distribution that must be ensured in the planning stage.

- Fire protection EN60204-1
- Defined operating condition EN61131-2
- Stored operating condition EN61131-1

Both power switches and electronic overcurrent protection devices with current limitation increase the risk of fire during operation, because faulty current continues to flow or operating voltages dip.

This means that the **fault** and the system **downtime** are inevitable – **MICO actively prevents this.**

**Safe and reliable** – MICO monitors every current path, signals threshold loads, and in the case of overcurrent switches off the specific, affected

path to a safe state. No cross influences, no voltage dips, simple debugging. No unnecessary machine downtime.

**Space and cost savings** – compact dimensions and a reliable bridging system for +24 V, 0 V, combined signals, and remote power-on save up to 30 % on the mounting rail, and cut installation costs by up to 40 %.

**Flexible and intelligent** – you can pre-select each current path independently. Measurement lists are no longer necessary. Storage costs and spare of parts are reduced. The current paths in the module start up one after the other (cascaded), thus actively reducing the combined switch-on voltages. You can save on unnecessary power reserves for the “power-on” effect.

**Service friendly** – The visual 90 % warning indication allows the user to avoid errors. This simplifies the design when starting up and upgrading.

**Minimum cost for maximum benefit**



100 % WIRED



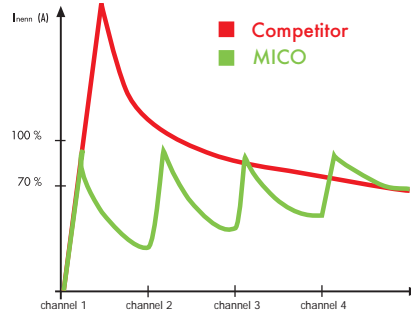
# MICO power control

Improves machine uptime



## MICO – switches on intelligently

### Features

- Spring clamp terminals 2.5...16 sq. mm, brushable
- Also suitable for capacitive loads ("power-on effect" > 10,000 µF at 2 A) (C2 contact-breaker approx. 5,000 µF)
- Slow during start-up, fast during operation
- No current limitation (voltage dip)
- Remote power-on via "ON" terminal (e.g. through PLC)
- On/off switch per channel for start-up
- No wear parts, such as flat seals or similar parts
- Channels selectively cascaded (see illustration)
- Operating status indicator (on, limit load, overload/short-circuit, off)
- Combined signals via potential free N/O working contact
- Bridging concept with standard purchased parts
- Very low internal resistance, hardly any power dissipation
- Operating temperature 55 °C, vibration and shock proof



## MICO

4 channels for each item	MICO 4.6	MICO 4.10
		
<b>Version</b>	<b>Art.-No.</b>	<b>Art.-No.</b>
Current range 1 A, 2 A, 4 A, 6 A	9000-41034-0100600	9000-41034-0401000
Current range 4 A, 6 A, 8 A, 10 A		
<b>Technical datas</b>	<b>Diameter</b>	
Terminal usage		
+24 V DC Input	2 x 16 mm <sup>2</sup> per modul	
+24 V DC Output	1 x 4 mm <sup>2</sup> per channel	
Combined alarm output	per 1 x 2,5 mm <sup>2</sup>	
ON	2 x 2,5 mm <sup>2</sup>	
0 V	2 x 4 mm <sup>2</sup>	

## MICO – Topology





The information contained in this brochure is deemed to be accurate and up to date. Murrelektronik accepts no liability for any changes made to the products or information contained within this brochure.

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