

ControlPlex®

The "Missing Link"



Industrial Ethernet

Power Supply DC24V

Previous solution:

- Transformer Power Supplies (TPS)

Current solution:

- Switched Mode Power Supplies (SMPS)



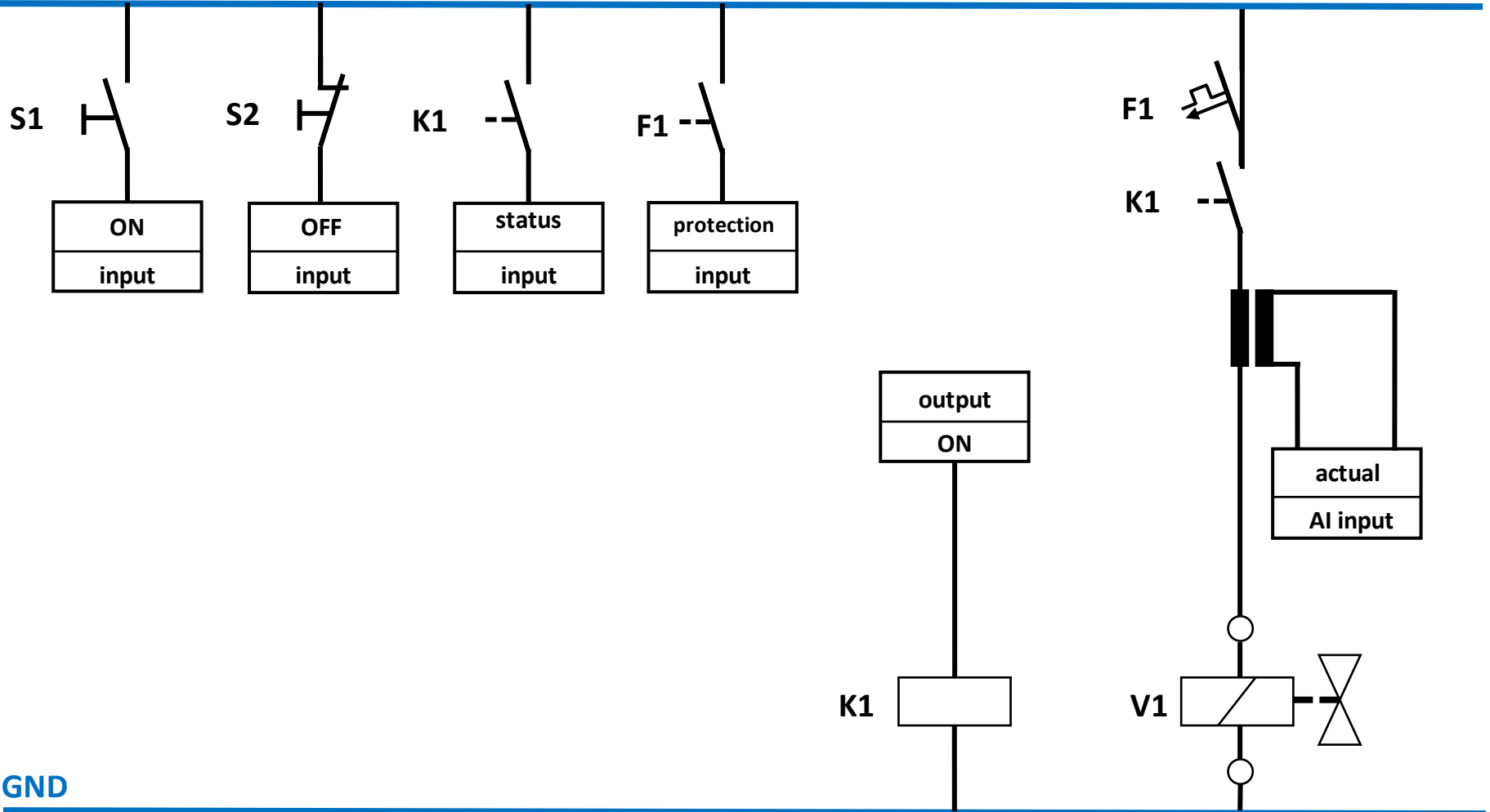
Industrial Ethernet

Intelligent power distribution for industrial use

ControlPlex®

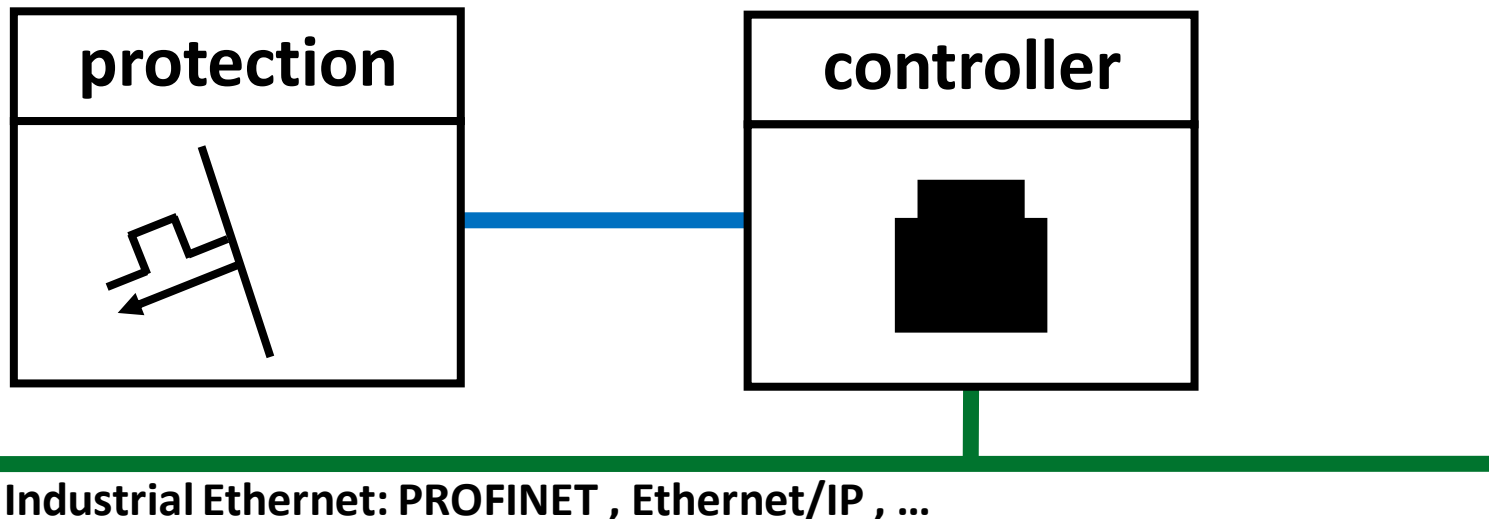


DC 24V



GND

Protection with communication capability of Electronic protection

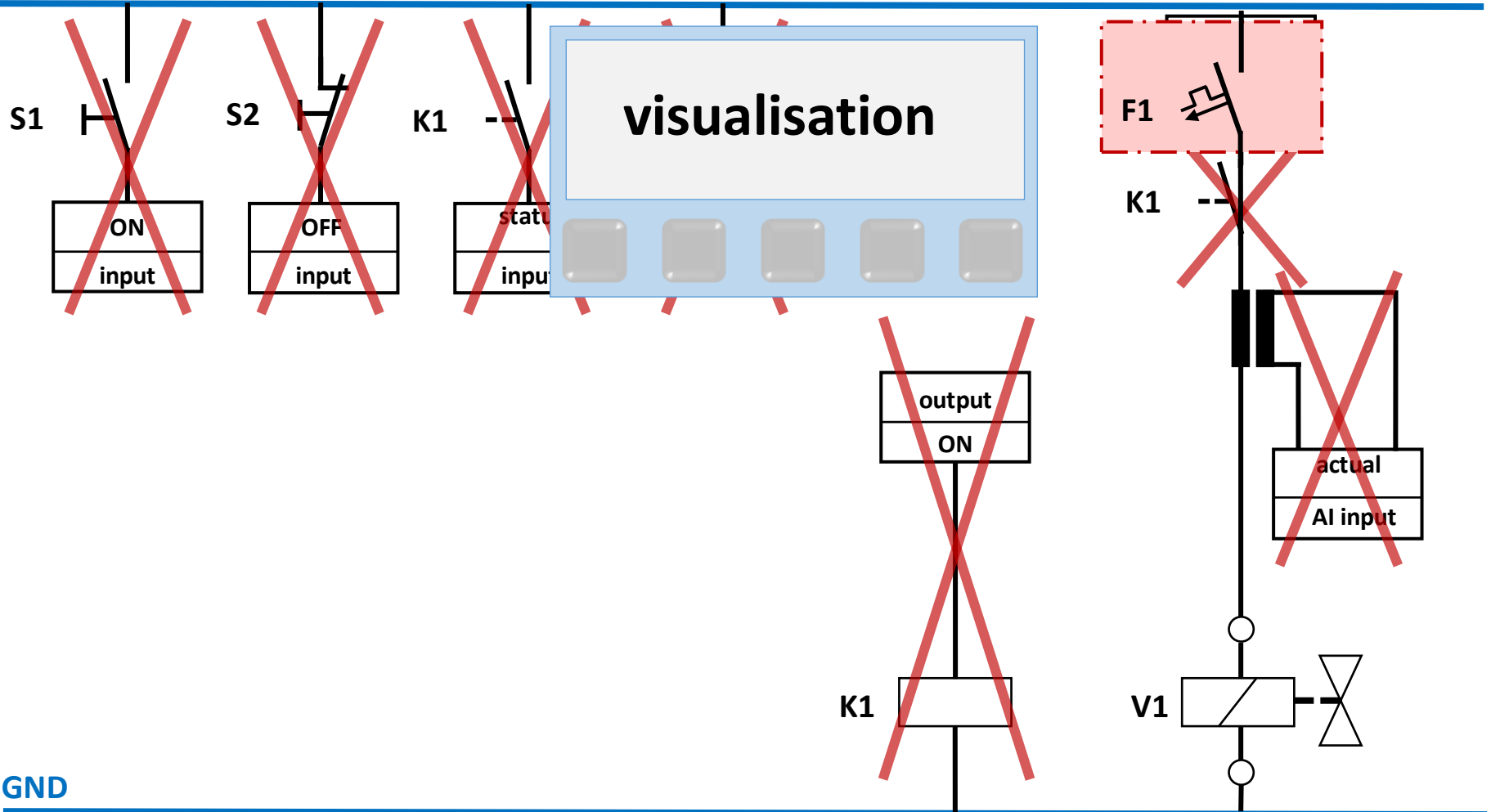


Industrial Ethernet

Intelligent power distribution for industrial use

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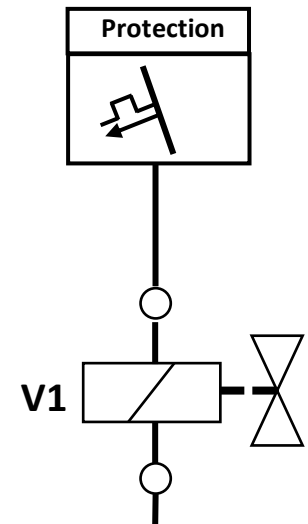
DC 24V



GND

DC 24V

- ④ **remotely controllable**
- ④ **status indication**
- ④ **measured values displayed**
- ④ **diagnostic functions**
- ④ **complete protection DC24V**

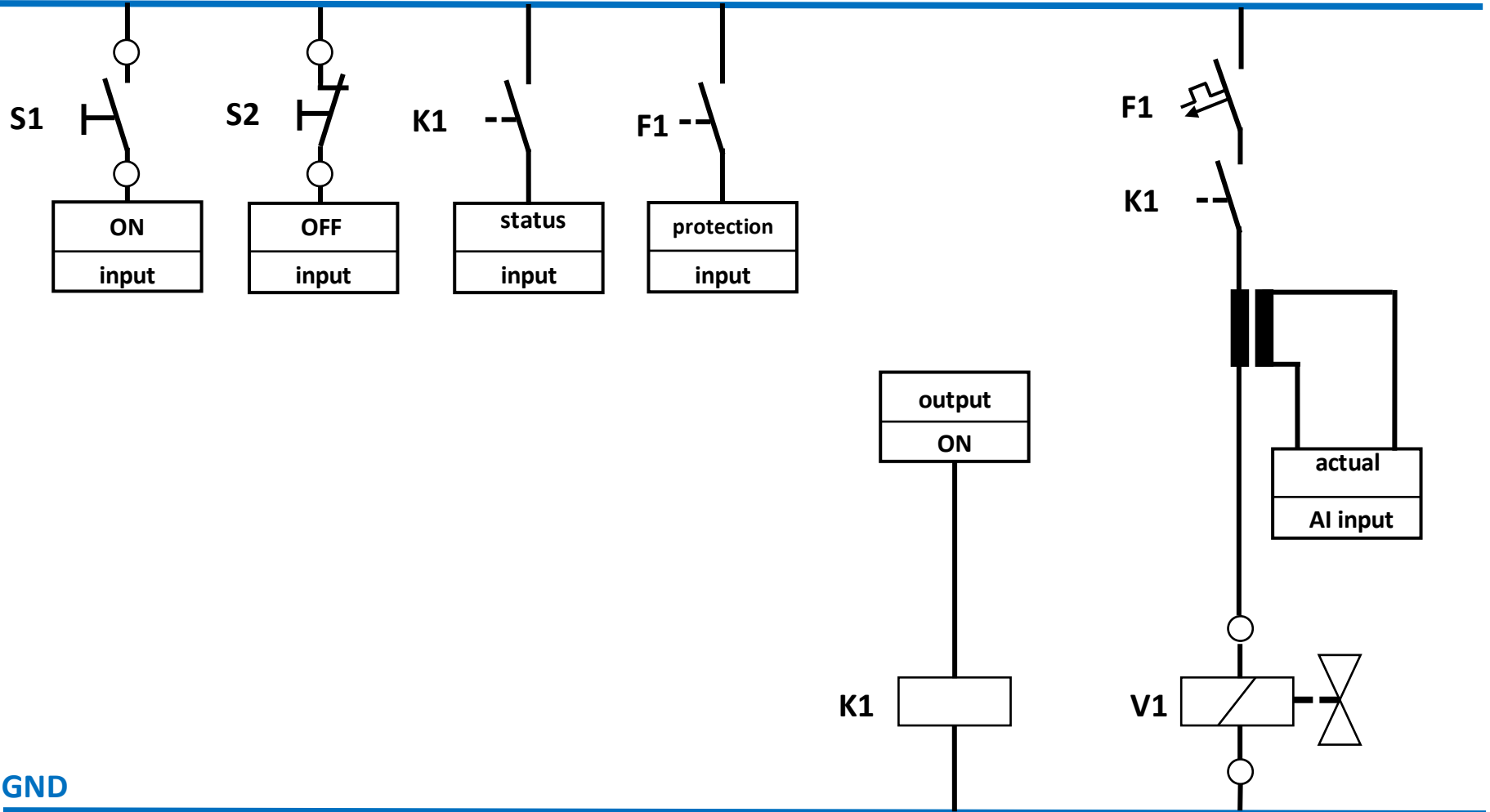


GND

Intelligent power distribution for industrial use

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DC 24V



GND

System transparency

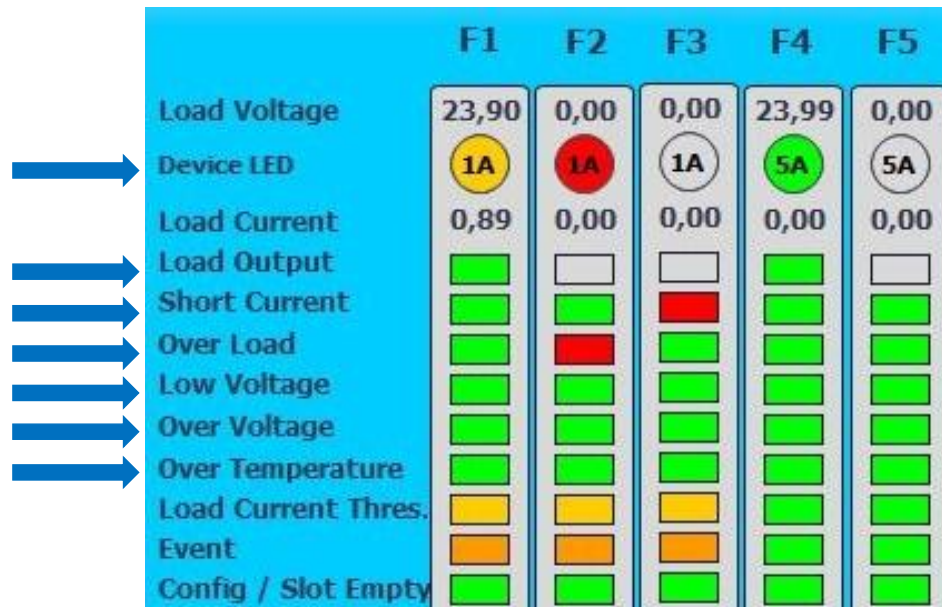
1. status of all electronic protectors
2. adjusted current rating
3. real current rating
4. system utilisation [%]
5. reason for tripping
6. number of trippings

System transparency



Industrial Ethernet

Status of circuit breakers



	F1	F2	F3	F4	F5
Load Voltage	23,90	0,00	0,00	23,99	0,00
Device LED	1A	1A	1A	5A	5A
Load Current	0,89	0,00	0,00	0,00	0,00
Load Output	Green	White	White	Green	White
Short Current	Green	Green	Red	Green	Green
Over Load	Green	Red	Green	Green	Green
Low Voltage	Green	Green	Green	Green	Green
Over Voltage	Green	Green	Green	Green	Green
Over Temperature	Green	Green	Green	Green	Green
Load Current Thres.	Yellow	Yellow	Yellow	Green	Green
Event	Orange	Orange	Orange	Green	Green
Config / Slot Empty	Green	Green	Green	Green	Green

LED

status load output

short circuit

overload

temperature rise

undervoltage*

overvoltage**

* load output is automatically reset

** indication only

Measured value display of circuit breakers

	F1	F2	F3	F4	F5
Load Voltage	23,90	0,00	0,00	23,99	0,00
Device LED	1A	1A	1A	5A	5A
Load Current	0,89	0,00	0,00	0,00	0,00
Load Output	Green	White	White	Green	White
Short Current	Green	Green	Red	Green	Green
Over Load	Green	Red	Green	Green	Green
Low Voltage	Green	Green	Green	Green	Green
Over Voltage	Green	Green	Green	Green	Green
Over Temperature	Green	Green	Green	Green	Green
Load Current Thres.	Yellow	Yellow	Yellow	Green	Green
Event	Orange	Orange	Orange	Green	Green
Config / Slot Empty	Green	Green	Green	Green	Green














































load voltage

load current

indication of limit value*

* alarm when limit value is reached [50% - 100%]

Event display

	F1	F2	F3	F4	F5
Load Voltage	23,90	0,00	0,00	23,99	0,00
Device LED	1A	1A	1A	5A	5A
Load Current	0,89	0,00	0,00	0,00	0,00
Load Output					
Short Current					
Over Load					
Low Voltage					
Over Voltage					
Over Temperature					
Load Current Thres.					
Event					
Config / Slot Empty					

current rating adjustment
histogram available
unit off

Control of circuit protectors

	F1	F2	F3	F4	F5	F6	F7	F8
Load Voltage	23,90	0,00	0,00	23,99	0,00	0,00	0,00	0,00
Device LED	1A	1A	1A	5A	5A	5A	5A	5A
Load Current	0,89	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Load Output	Green	White	White	Green	White	White	White	White
Short Current	Green	Green	Red	Green	Green	Green	Green	Green
Over Load	Green	Red	Green	Green	Green	Green	Green	Green
Low Voltage	Green	Green	Green	Green	Green	Green	Green	Green
Over Voltage	Green	Green	Green	Green	Green	Green	Green	Green
Over Temperature	Green	Green	Green	Green	Green	Green	Green	Green
Load Current Thres.	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green
Event	Orange	Orange	Orange	Green	Green	Green	Green	Green
Config / Slot Empty	Green	Green	Green	Green	Green	Green	Green	Green
Load Output on/off	Green	Green	Green	Green	Grey	Grey	Grey	Grey
Reset	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey
Enable Control	Green	Green	Green	Green	Grey	Grey	Grey	Grey

load output ON/OFF
reset load output

Advantage of electronic circuit protectors?

1. active current limitation
2. voltage stability for loads
3. reduced wiring time
4. reduced number of devices
5. system transparency via Industrial Ethernet



Industrial Ethernet

**Thank you very
much for your
attention**

Questions?



Industrial Ethernet

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