

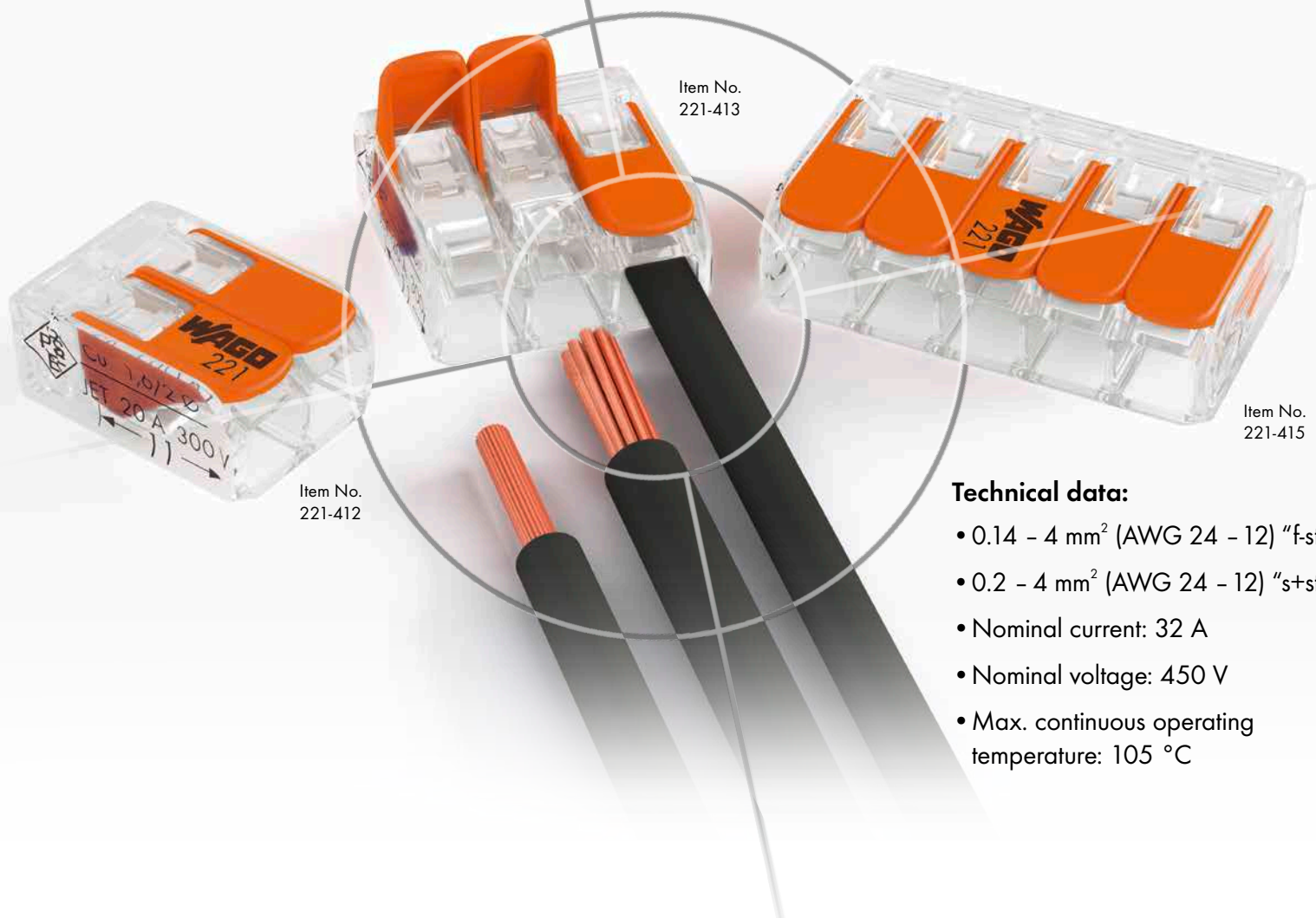
# **WAGO**<sup>®</sup> innovative

**New Product Highlights**  
Issue 1/2014



# Small and Very Clever

## 221 Series COMPACT Splicing Connectors for All Wire Types



### Technical data:

- 0.14 – 4 mm<sup>2</sup> (AWG 24 – 12) "f-st"
- 0.2 – 4 mm<sup>2</sup> (AWG 24 – 12) "s+st"
- Nominal current: 32 A
- Nominal voltage: 450 V
- Max. continuous operating temperature: 105 °C

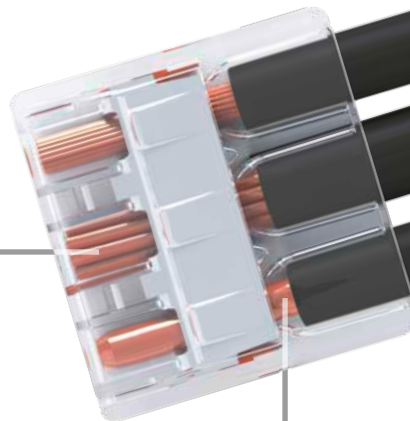
- Up to 40 % smaller than the predecessor 222 Series
- Transparent housing for visual inspection of the correct wire position and strip length
- Two test slots for all standard test probes

**40 %  
SMALLER**



**100 %  
TRANSPARENT**

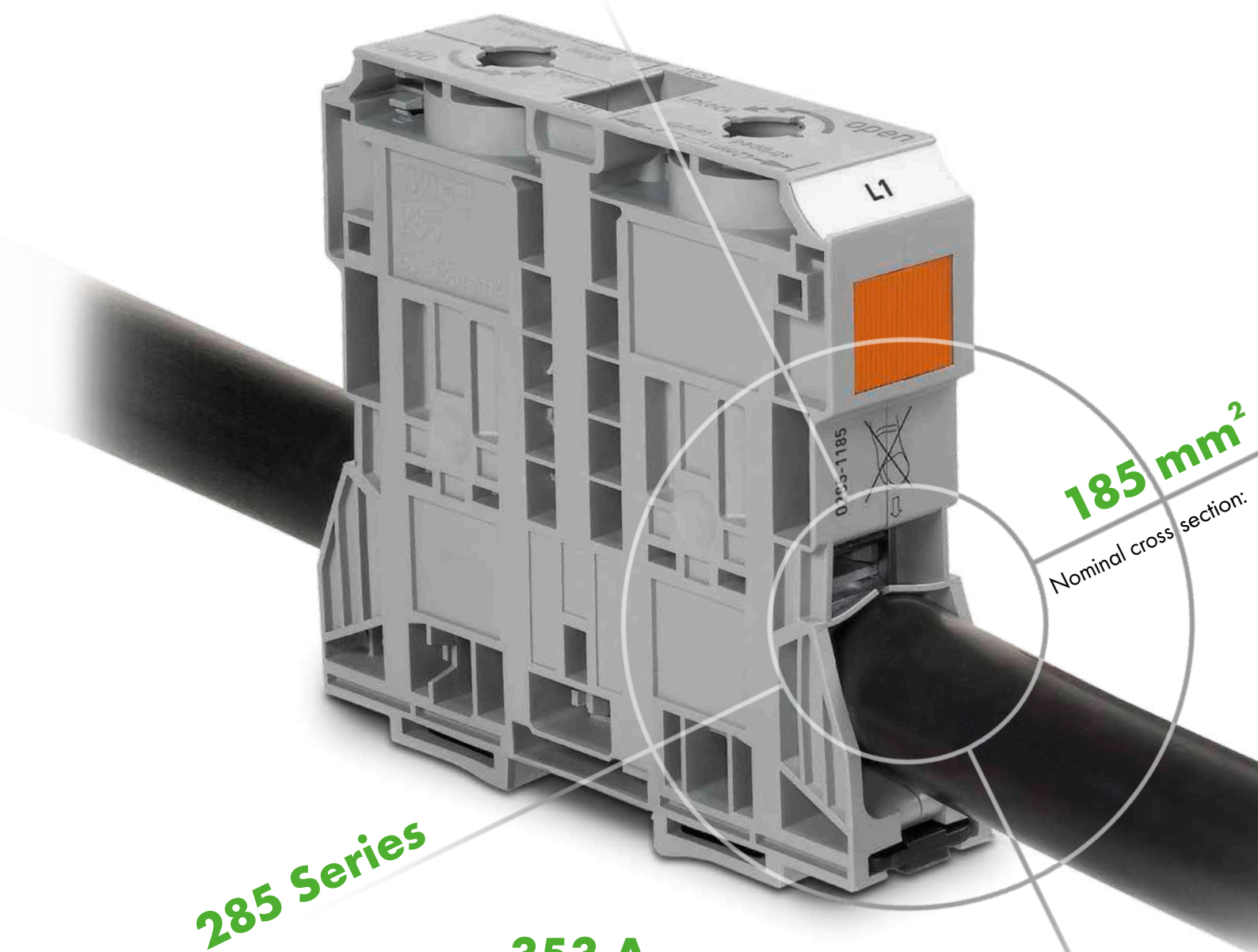
Wire inserted properly



Wire stripped properly

# High-Current Rail-Mounted Terminal Blocks, 285 Series

## 185 mm<sup>2</sup> Connected via Spring Pressure

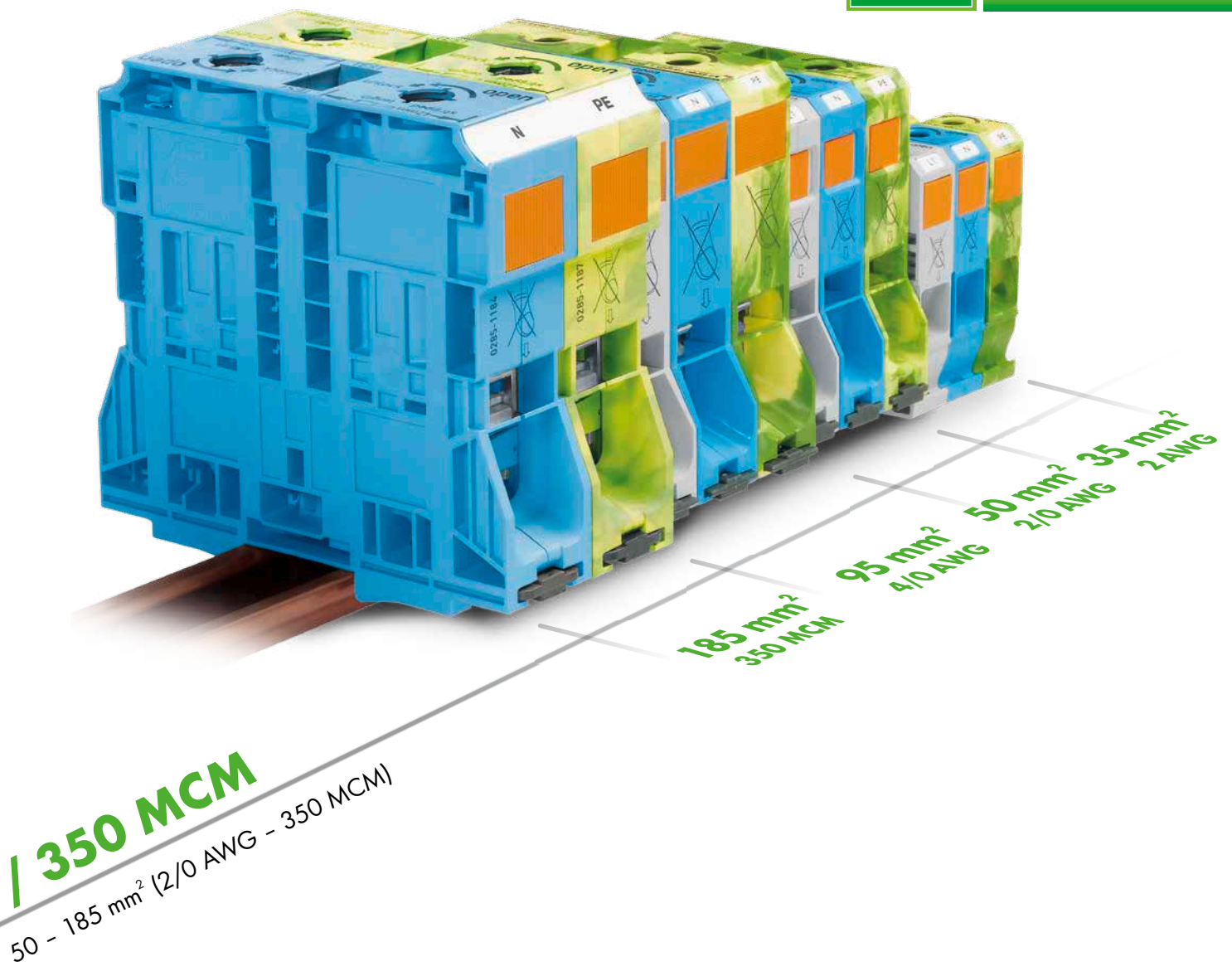


285 Series

**353 A**

AC/DC up to 1000 V  
DC up to 1500 V





## POWER CAGE CLAMP®

vibration-proof - fast - maintenance-free

- Fast terminations without time-consuming preparation - no ring terminals or ferrules required
- Optimum clamping force - independent of operator skill
- Easy termination of difficult-to-bend conductors via locking tab, allowing to lock the clamping unit open

## SMD Terminal Blocks, 2059 Series

Small is  
**Big**



For Manual and  
Automated Wiring Systems

**2060**



For Direct Power  
System Feed-In

**2061**



**2059** For the  
Smallest Sizes



Item No., 1-Pole Version:  
2059-301/998-403



Item No., 2-Pole Version:  
2059-302/998-403



Item No., 3-Pole Version:  
2059-303/998-403

- Technical data:**
- Wire sizes: 26 - 22 AWG "sol."  
(0.14 - 0.34 mm<sup>2</sup>)
  - Rated voltage: 160 V / 2.5 kV / 2
  - Rated current: 3 A

- Just 2.7 mm high
- Push-in termination of solid wires;  
easy removal via operating tool
- Group arrangement is possible  
without losing any poles

# WAGO-I/O-SYSTEM 750 XTR

## Taking it to the eXTreme – The standard for 750 XTR

The WAGO-I/O-SYSTEM 750 XTR is easily recognizable by its dark-gray modules. Benefit from the unique added value provided by this system in extreme environment applications:

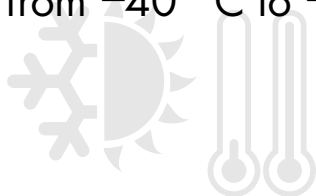
- Lower space requirements
- Lower purchase costs
- Lower energy costs
- Lower maintenance costs
- Safe investment
- Maximum system availability
- Greater productivity

Extreme resistance to weather, immunity to interference, as well as vibration resistance and impulse-voltage withstand are central features of the WAGO-I/O-SYSTEM 750 XTR. This is what makes 750 XTR the first choice for such demanding applications as:

- Shipbuilding and onshore/offshore industry
- Renewable energy systems  
(wind power, photovoltaic and biogas plants)
- Secondary substations and power distribution systems
- Petrochemical industry
- Water and wastewater industry
- Custom machine engineering

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**eXTreme**  
**temperature**  
from  $-40\text{ }^{\circ}\text{C}$  to  $+70\text{ }^{\circ}\text{C}$

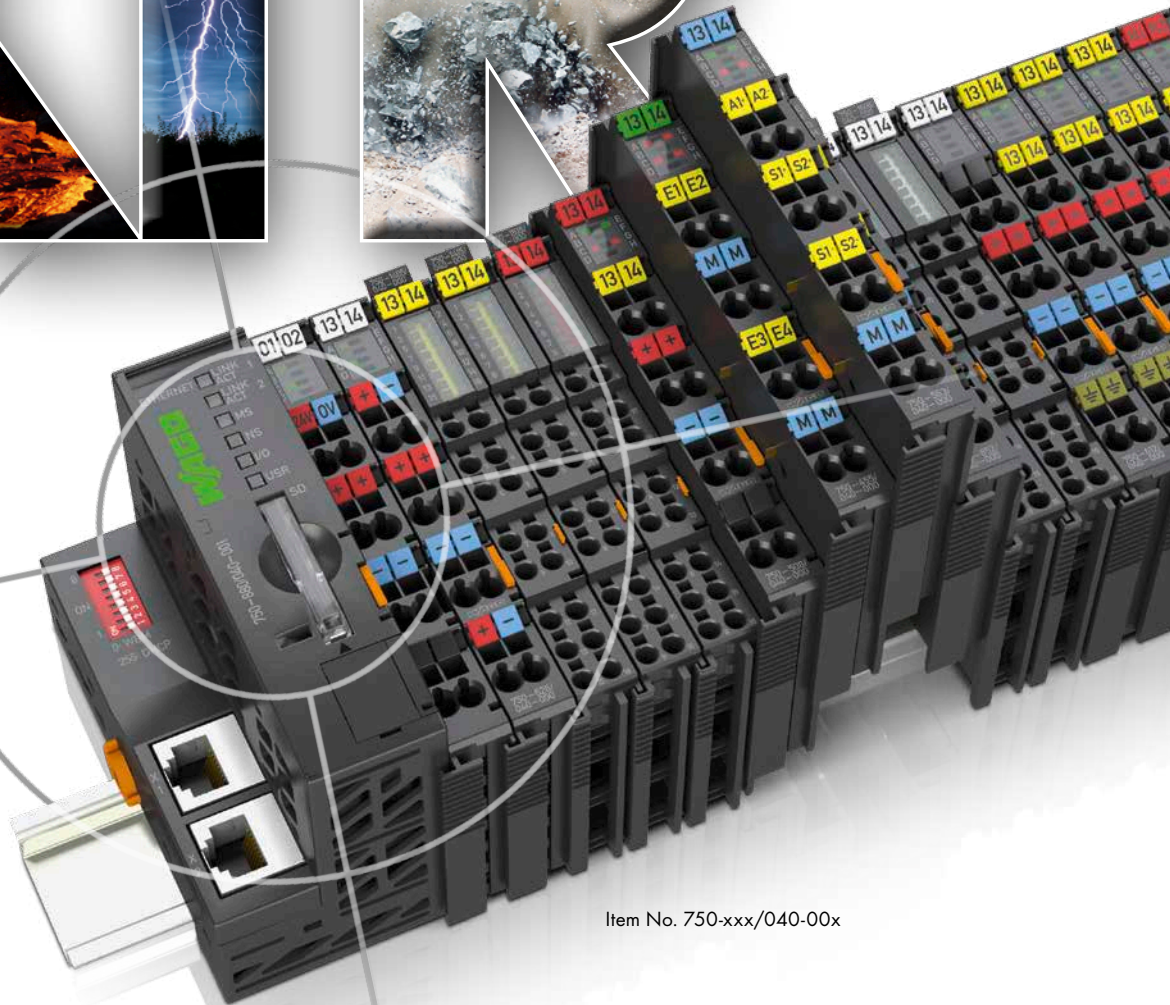


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**eXTreme**  
**insulation**  
up to 5 kV  
impulse voltage  
**DIN EN 60870-2-1**







Item No. 750-xxx/040-00x

## eXTReme vibration

up to 5g acceleration

DIN EN 60068-2-6

## Fine modularity

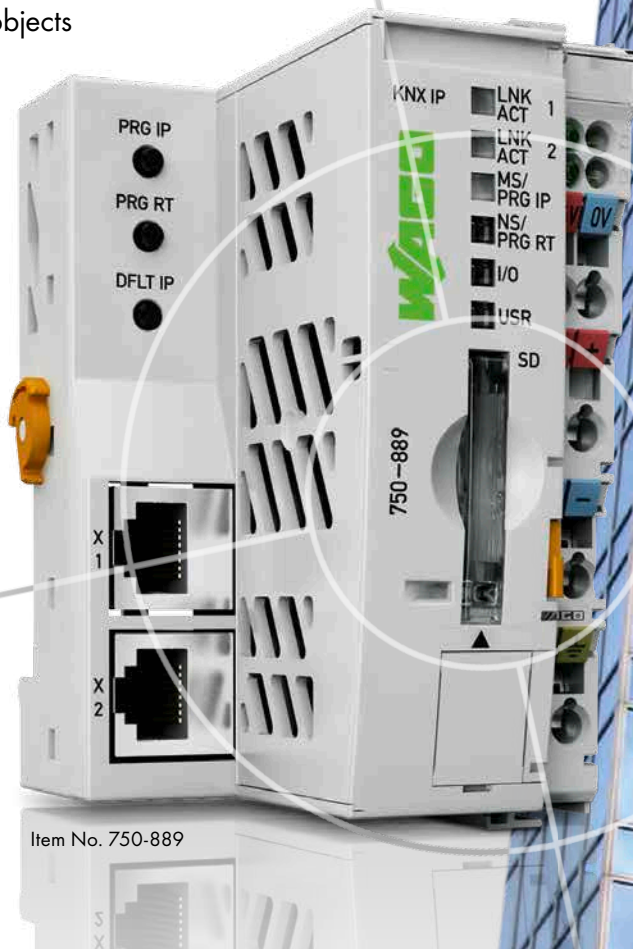
Large variety of components

**Compact** (up to 16 channels in  
a 12 mm wide housing)

# Proven Technology in New Dimensions

## KNX IP Controller

- Programmable application controller with ETHERNET interface and KNX IP protocol
- Automatic generation of KNX objects from the CODESYS program
- Integrated KNX IP Router in combination with the KNX TP1 Module
- Button for restoring the default IP address (DFLT IP)

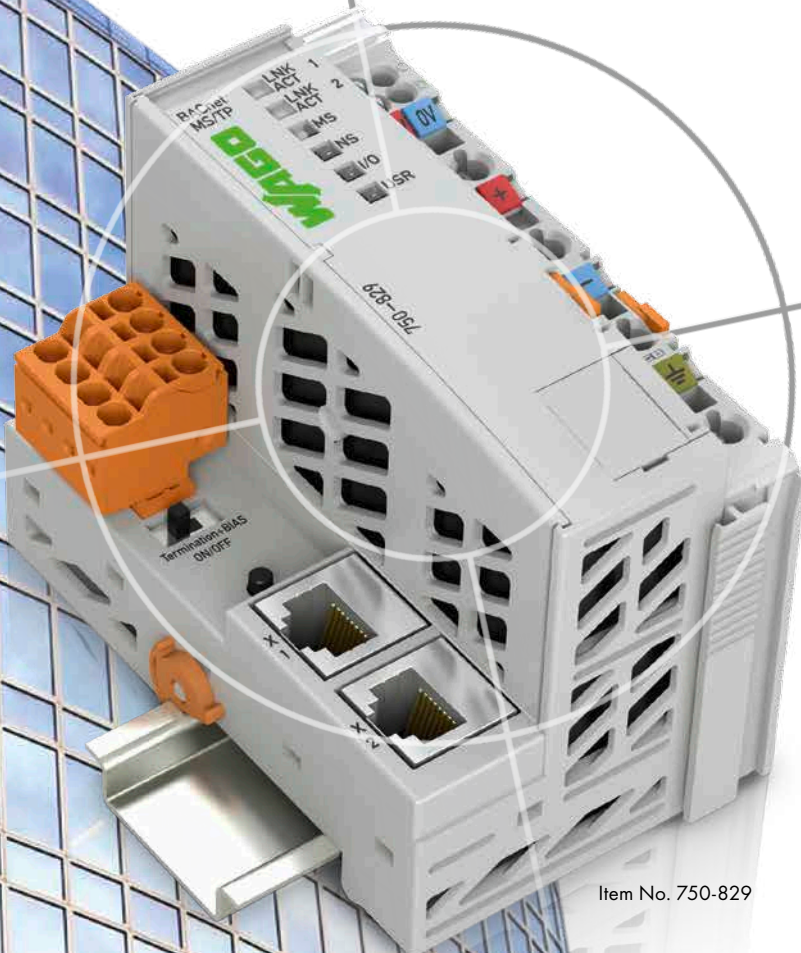


- **Powerful hardware with SD card slot**
- **High performance and large program/data memory**
- **Streamlined workflow for more efficient project processing**

Advance notice: Publication in online catalog by October 2014  
Information on product availability can be found online at [www.wago.com/knxnews](http://www.wago.com/knxnews)



# BACnet MS/TP Controller



Item No. 750-829

## Technical data:

- BACnet MS/TP interface
- MS/TP Master
- B-BC (BACnet Building Controller) device profile
- Programmable to IEC 61131-3
- Highly modular I/O
- Via service interface: integrated Web server and ETHERNET protocols

- Cost-effective integration of standard I/O into BACnet networks
- Integration of DALI/SMI/LON<sup>®</sup>/EnOcean into BACnet MS/TP networks
- High-performance processor for complex control applications

# Streamlined Design, Enhanced Communication and Features

## EPSITRON® CLASSIC Power – Redesign

### Technical data:

- Single-phase power supplies with a wide input voltage range of 100 to 240 VAC
- Output voltage: 12, 24 or 48 VDC
- Output power with integrated TopBoost: 30 – 480 W
- Female connectors with CAGE CLAMP® connection technology – 100% protected against mismatching
- DC OK contact

Two of Fourteen Power  
Supplies,  
Item No. 787-16xx

- Worldwide use is possible thanks to a wide-range input and UL/GL approvals
- Integrated TopBoost permits cost-effective secondary-side fuse protection
- Convenient pre-wiring via CAGE CLAMP® connection technology – 100 % protected against mismatching

Advance notice: Publication in online catalog by April 2014

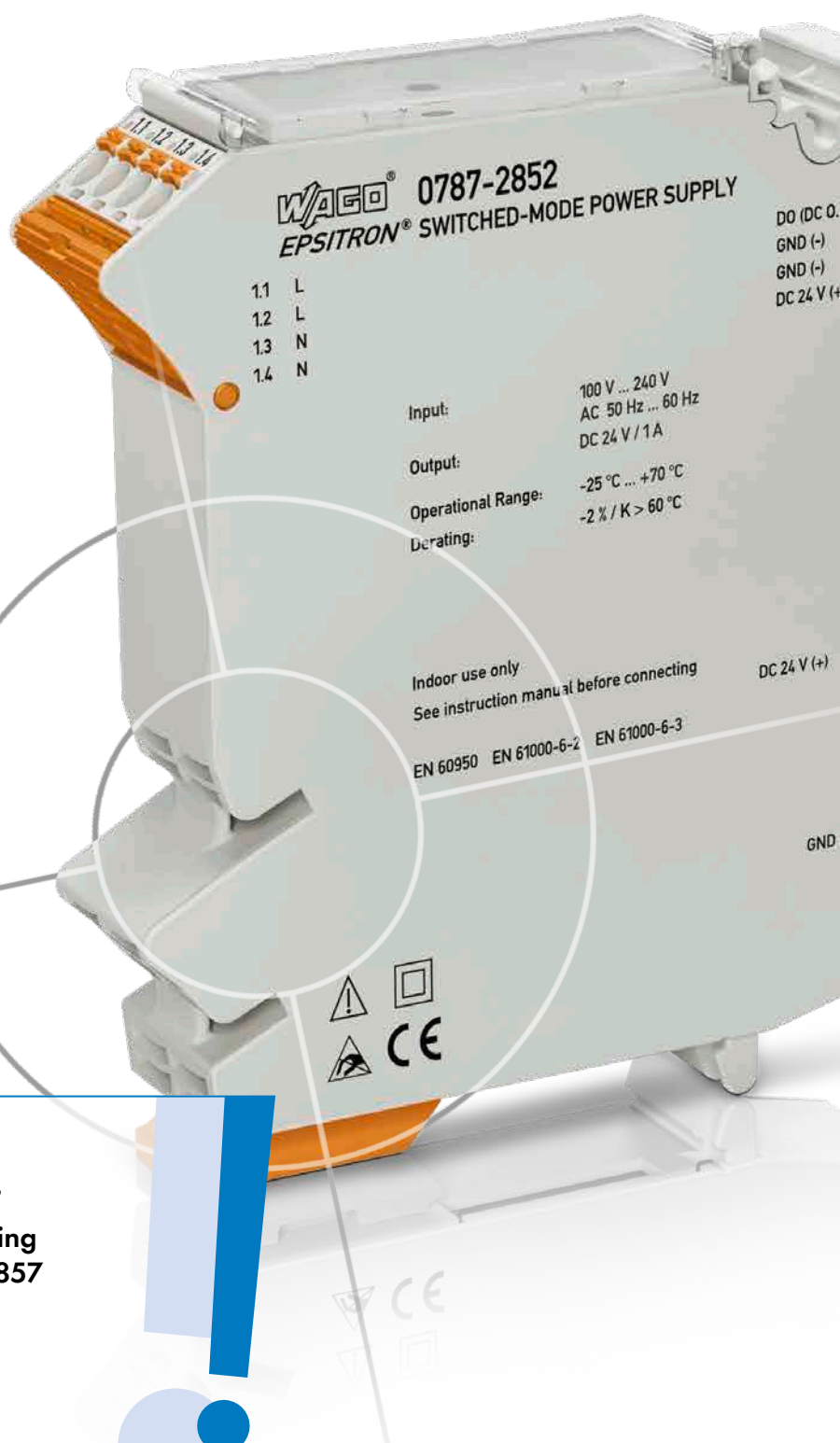
# Perfect Power Supply for **JUMPFLEX®**

AUTOMATION

## **JUMPFLEX®** powered by **EPSITRON®**

### Technical data:

- Single-phase power supply with a wide input voltage range of 100 to 240 VAC
- Output with integrated redundancy diode: 24 VDC / 30 W
- Shares a common profile with 857 and 2857 Series **JUMPFLEX®** Modules
- Features pluggable picoMAX® connection technology and push-in jumper system
- DC OK signal

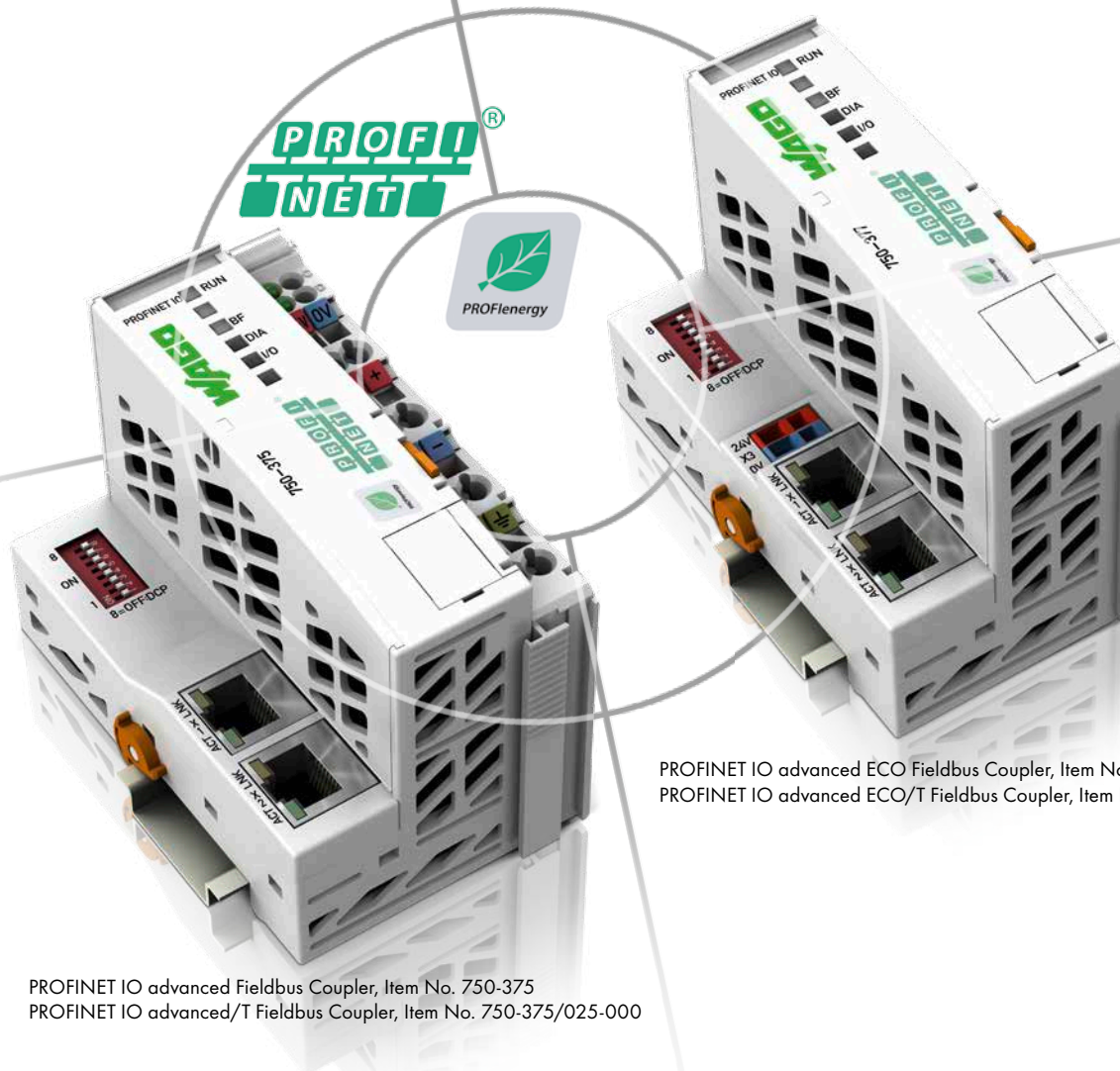


- Worldwide use is possible thanks to a wide-range input and UL/GL approvals
- Common profile enables easy commoning of the output voltage across 857 and 2857 Series **JUMPFLEX®** Modules
- Integrated redundancy diode provides fail-safe power supply



# New PROFINET IO Features in the WAGO-I/O-SYSTEM

## PROFINET IO advanced Fieldbus Coupler



PROFINET IO advanced Fieldbus Coupler, Item No. 750-375  
PROFINET IO advanced/T Fieldbus Coupler, Item No. 750-375/025-000

PROFINET IO advanced ECO Fieldbus Coupler, Item No. 750-377  
PROFINET IO advanced ECO/T Fieldbus Coupler, Item No. 750-377/025-000

- Efficient energy management → PROFenergy
- Safety-related applications → Safety Integrated
- Separation between standard and safety functions → Shared Device
- Use in IRT networks → IRT
- Redundant ring topology → MRP
- Extended temperature range → -20 °C ... +60 °C

Advance notice: Publication in online catalog by April 2014

# WAGO Controller: Also Suitable for Embedded Linux® Developers

AUTOMATION

## PFC200 – The Linux® Controller

- Linux® open-source operating system
- Integrated real-time capability
- Base image can be expanded via open-source packages
- Configuration and visualization via Web server
- Additional fieldbus variants:

CANopen

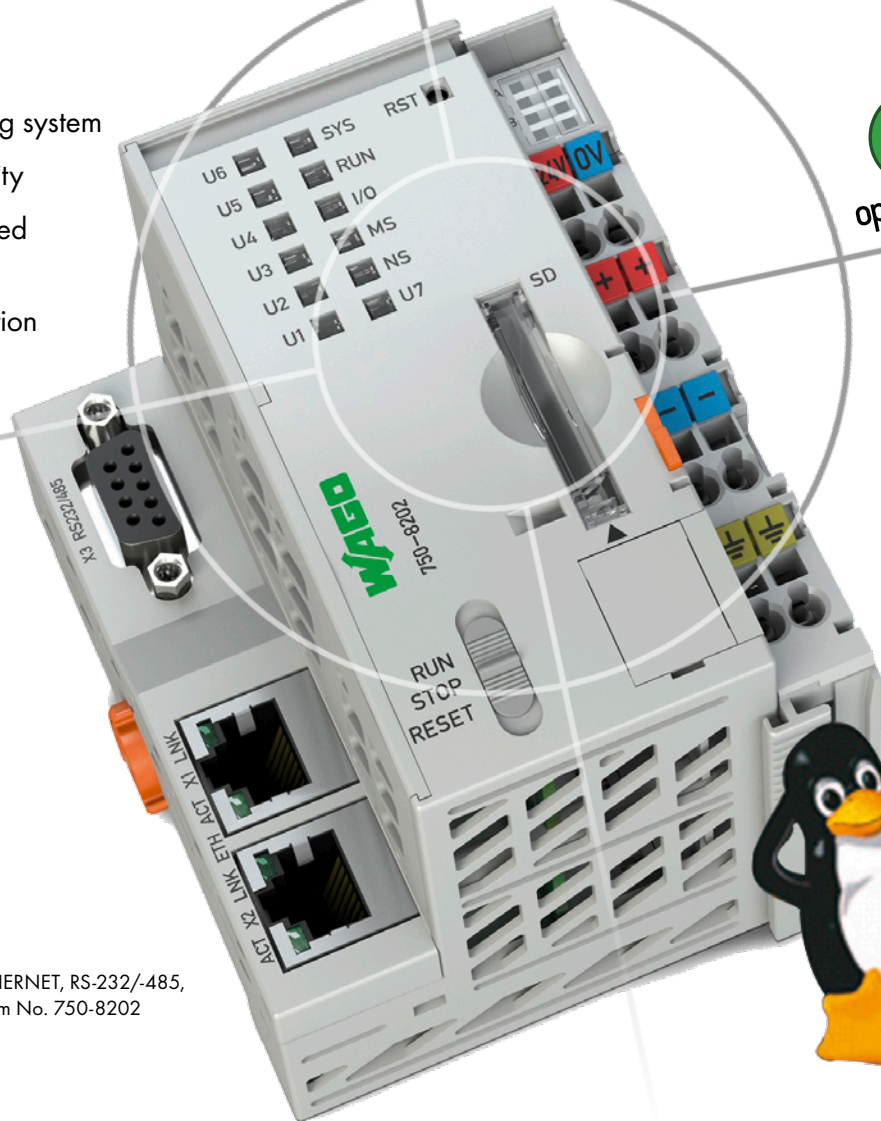
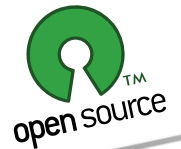
PROFI  
BUS



CODESYS

OSADL

ETHERNET, RS-232/-485,  
Item No. 750-8202



- Full-featured and powerful Linux® machine
- Linux® distribution (BSP\*), including many tools
- Compatible with PLC runtime system and libraries

\* Board Support Package



**Additional information at [www.wago.com](http://www.wago.com)**

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