



# **Electrics for Rolling Stock**

## **CO4** series

High-voltage changeover unit for rail vehicles

Flyer F180.en





#### CO4 High-voltage changeover unit for rail vehicles

High-voltage changeover units of the CO4 series are switching devices for load-free configuration of electrical loads. The new 6-position devices are now more powerful – the cam switchgear configures faster and the switching chambers can carry higher currents. Changeover devices are

Wide power range: UIC voltages up to 3,600 volts, with reinforced insulation 5,000 volts; continuous thermal currents up to 100 amps. Load-free adaptation of electrical configurations to different train busbar systems according to UIC 550.

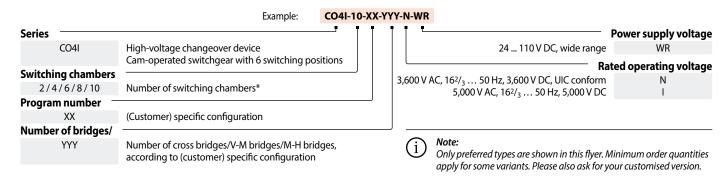
6 switching positions: 6 control inputs for 6 pre-configured positions, controlled via a motor-operated cam controller

needed for voltage configuration for railway vehicles in cross-border traffic with changing supply voltages. Here, the changeover unit is the link between the train busbar and the electrical consumers, e.g. power supply systems and heating registers.

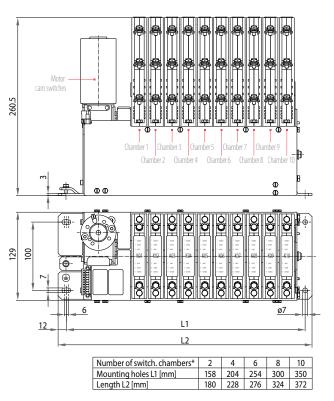
Modularity: Cam switchgear with 2 to 10 switching chambers\* including ready-to-use connection configuration; customer-specific defined switching programmes as well as many switching programmes of European railway operators available.

**Standards:** Tested to railway standard EN 60077-1,EN 60077-2, UIC 550 as well as EN 50124-1 and EN 50163.

### Ordering code



#### Dimension diagram, circuit diagram



#### Dimensions in mm

#### **Specifications**

Series		CO4
Type of voltage		DC, AC ( $f \le 60 \text{ Hz}$ )
Switching gear Number of Control Drive		2/4/6/8/10 switching chambers* 6 control inputs, 6 pre-configured positions Cam gear, electric motor
Contact system per switching chamber Nominal voltage U <sub>n</sub> Rated operating voltage U <sub>e</sub> Rated insulation voltage U <sub>Nm</sub> Rated imp. withst. voltage U <sub>Ni</sub> Pollution degree Overvoltage category Conventional thermal current I <sub>th</sub>		3,000 V 3,600 V @ PD3, OV3 / 5,000 V @ PD2, OV2 3,600 V @ PD3, OV3 / 5,000 V @ PD2, OV2 25 kV PD2, PD3 OV2, OV3 100 A
<b>Drive</b> Control voltage U <sub>S</sub> Control voltage tolerance Power consumption		24 110 V DC 0.7 1.25 x Us 20 W during changeover operation, otherwise none
Vibration / Shock Mechanical endurance Mounting position Temperatures Weight	IEC 61373	Category 1, class B  125,000 operating cycles horizontal, vertical (do not mount upside down)  -40° C +85° C approx. 9.5 kg, device with 10 switching chambers
* others upon request		SCHALTBAU

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