



DOR206/230 Digital relay output module

Relays are the simplest way of controlling galvanically isolated power circuits. The direct pluggable relays of the digital output module significantly reduce wiring work, save valuable control cabinet space and facilitate troubleshooting. The mechanical interlock reliably keeps the relay in place even when subjected to shocks and vibrations. The relays offer maximum flexibility for implementation in switch cabinets thanks to possibilities offered by standard relay types with a voltage range from 24 V/48 V DC or 230 V AC, a broad power range and the selection of valuable electro-mechanical relays or solid state for high make-and-break cycles.

Quick and easy serviceability without the use of tools is won by easy availability, clear status and error display via LED and a locking/ejecting mechanism of relays as service parts.

Part type designation	Part number
DOR206/230	00014497-10

Features

- 6 relays
- Normally closed contact (NC), normally open contact (NO), change-over contact (CO)
- Standard socket for SIL relays
- Electro-mechanical or solid state relays
- Mechanically locked relays
- Coiled current monitoring
- Status indication for each channel via LED
- Galvanic isolation measured for voltages from system to channel 2500 V AC
- Backplanes BS2xx/S with protection class 1 for other voltages than SELV are available
- Cost effective and space saving through direct wiring to the consumer without relay and terminal

DOR206/230

Relay outputs	
Number	6 relay outputs; 3 groups with 2 relay outputs each are together on a socket
Relay socket	For SIL relays 28 × 5 × 15 mm
Relay coil	Coil voltage 24 V DC, power rating 170 mW
Relay contact	230 V AC, 24 V DC depending on relay type
Switching capacity per channel (max.)	Ohmic resistive load up to 2 A AC AC 15 230 VA (230 V AC / 1 A AC) DC 13 12 W (24 V DC / 0.5 A DC)
Status indication (LED)	Green
Switching frequency (max. resistive load)	1 Hz
RC circuit	Relay and load-dependent external execution
Input voltage, nominal	230 V AC, 24 V DC depending on relay type (mixed equipment not permitted)

Internal power supply	
Galvanic isolation relay outputs for the system	2500 V AC / 5.5 mm
Galvanic isolation between the groups	1500 V AC / 3 mm (between the three relay output groups and to the housing)
Galvanic isolation between relay outputs	800 V AC / 1 mm (between two relay outputs each)

Approvals/Certificates	
General	CE, UKCA
Marine	ABS, BV, DNV, KR, LR, NK, RINA

Environmental conditions	
Operating temperature	-30 °C to +60 °C
Relative humidity, operation	5 % to 95 % noncondensing
Storage temperature	-40 °C to +85 °C
Relative humidity, storage	5 % to 95 % with condensation
Pollution degree (IEC 60664-1)	1

Order data

Part type designation	Part number	Description
DOR206/230	00014497-10	Digital relay output module 6x sockets with relay 24 V / 230 V; AC15 230 VA; DC13 12 W; change-over contact; BS2xx protection class 1 necessary with 230 V working voltage

Accessories

Part type designation	Part number	Description
KZ-DOR206B+C	00014760-00	Terminal set Phoenix cage clamp (3x KZ 51/06) with labeling strips + keying elements

Safety instruction for operation

If higher voltages than safe low voltages are connected, then a backplane with BS2xx/S protective grounding for protection class 1 must be used. Safe low voltages and dangerous voltages may not be connected together on a relay module. In addition a suitable safeguard against accidental contact must be provided: for example, installation in a switch cabinet. During operation all sockets must be equipped with relays. Optimum contact protection for maintenance personnel is achieved by using cage clamps. A use as safety relay or in safety-related application programs is not permitted.