

Digital Input/Output Modules



DOR206/230 Digital Relay Output Modules

Relays are the simplest way of controlling galvanically isolated power circuits. The output module's direct pluggability relays drastically reduce wiring work, save valuable control cabinet space and facilitate troubleshooting. The locking mechanism keeps the relay in place even when subjected to shocks and vibrations. The relays offer maximum flexibility for implementation in control cabinets thanks to possibilities offered by standard relay types with a voltage range from 24 V/48 VDC or 230 VAC, 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 availability, clear status and error display (thanks to LED) and a locking/ejecting mechanism of relays as service parts.

- 6 relays
- Normally open contact (NO), normally closed contact (NC), change-over contact (CO)
- Standard socket for SIL relays
- Electromechanical or solid state relays
- Mechanically locked relays
- Coil current monitoring
- Status display for each channel via LED
- Galvanic isolation measured for voltages from system to channel 2500 VAC
- 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

Item	Item No.
DOR206/230	00014497-10

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DOR206/230	
Output relays	
Quantity	6 relay outputs; 3 groups with 2 output relays each are together on an output plug
Relay socket	For SIL relays 28 x 5 x 15 mm
relay coil	Coil voltage 24 VDC, power rating 170 mW
Relay contact	230 VAC, 24 VDC depending on relay type
Switching capacity per channel (max.)	Ohm resistive load up to 2 A AC AC 15 230 VA (230 VAC / 1 A AC) DC 13 12 W (24 VDC / 0.5 A DC)
Status indication (LED)	Green
Switching rate (max. load in Ohms)	1 Hz
RC circuit	Depending on relay and load complete externally
Input voltage, rated	230 VAC, 24 VDC depending on relay type (current consumption not allowed)
Internal power supply	
Galvanic isolation relay outputs to the system	2500 VAC / 5.5 mm
Galvanic isolation between the groups	1500 VAC / 3 mm (between the three relays output groups and to the Cabinet)
Galvanic isolation between relay outputs	800 VAC / 1 mm (between every two relay outputs)
Approvals / Certificates	
General	CE, UL/cUL, CCC
Marine	GL/DNV, LR, ABS, BV
Ambient conditions	
Operating temperature	-30 to +60 °C
Rel. humidity operation	5 to 95 % without condensation
Storage temperature	-40 to +85 °C
Rel. humidity storage	5 to 95 % with condensation
Pollution degree	1 (according to IEC 60664-1)

Order Codes DOR206/230		
Item	Item No.	Description
DOR206/230	00014497-10	Digital relay output module 6x sockets with relay 24V/230V; AC15 230 VA; DC13 12W; change-over contact; BS2xx protection class 1 necessary with 230V working voltage
Accessories		
KZ-DOR206 B+C	00014760-00	Terminal set Phoenix cage clamp (3x KZ 51/06) with labeling strip and coding 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 control cabinet. While in operation all sockets must have a relay plugged in. Cage clamps are the best method for protecting against accidental contact by technicians. It is not permissible to use these relays as safety relays or for safety related applications.