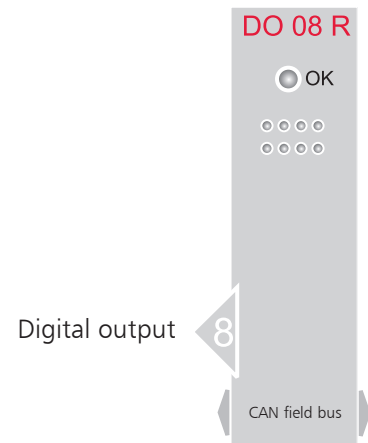


Digital Output Interface Relay

flexotemp®

DO 08 R



Features

- Module with 8 digital outputs (function configurable)
- Output type relay; per output 250 VAC/ 6 A
- CANopen norm slave based on DS401
- Applicable with flexotemp® PCU, flexotemp® MCU, in I/O nodes by flexotemp® CANBC
- Model ME-Bus (connectable)
- Status-LED
- Control LED's for digital in-/outputs
- Compact design

Function

- Application of digital outputs as control outputs, alarms or I/O's in Soft-PLC
- Complete functional integration in flexotemp® PCU and flexotemp® MCU
- Auto addressing

Benefits

- Easy, peripheral configuration of flexotemp® control system with remote I/O's
- Peripheral signal processing
- Easy expandability and integration in own applications
- Compact housing
- Little for installation

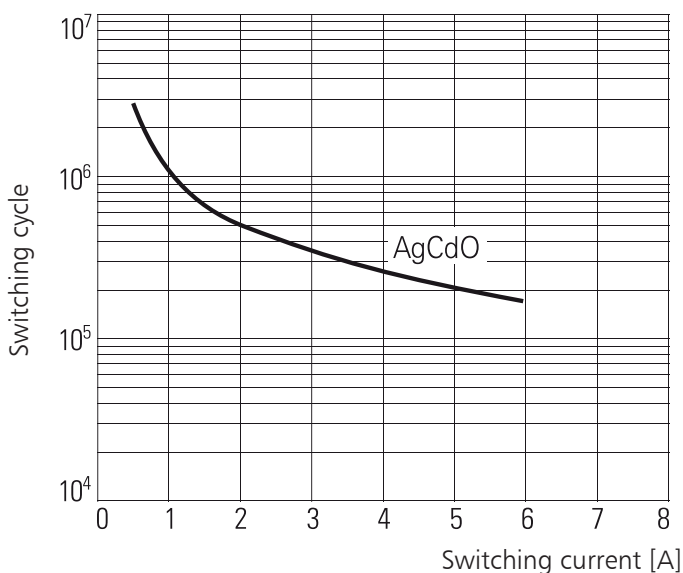
Ordering designations

	Order number
flexotemp® DO 08 R	RR 2200/DO08R

Technical Data

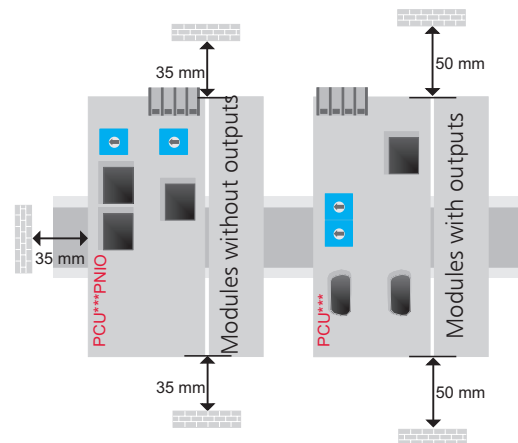
Digital outputs (DO)		Number: 8, configurable by flexotempMANAGER	
	Type	Relay; contact material AgCdO; potential-free contact, □switching characteristics by flexotemp-MANAGER programmable	
	Mechanical Switching cycle	Lifetime > 30 x 10 ⁶	
	Rated voltage	250 VAC / 30 VDC	
	Rated current relay	6 A	
	Overall switching capacity	All 8 channels in sum up to maximum 24 A	
Protection equipment		Reversed polarity of power supply: diode, over voltage of power supply: varistor	
Data interfaces			
	CAN	Field bus for I/O - and bus coupler modules	
		Address range	CANopen norm slave based on DS401, address range 1...127 automatically
		Transfer rate	250 KByte fixed
		Max. tolerable bus length (m)	250
		Device internal terminating resistor	Automatic
		Protocol	CANopen
Power supply			
	Rated voltage / max. power consumption	Electronics: 18...30 VDC / < 4 W (internal by system bus)	
	Fuse protection	Electronics: external by PCU and/or CANBC	
Ambient temperature limit		Operation: 0...55 °C, transport, storage: -20...60 °C, operation limit: 0...60 °C	
Atmospheric humidity limit		Operation: 0...90 % relative atmospheric humidity, no condensation Transport, storage: 0...95 % relative atmospheric humidity, no condensation	
Mounting		Installation on DIN rail (DIN 50022); horizontal installation position; see installation	
Connections		Spring-force terminals type FKCT 2.5/2-ST	
Dimensions (H x W x D in mm)		99 x 22.5 x 114.5	
Housing		Phoenix ME 22.5 Bus 10/2	
Weight		0.3 kg	
Electrical security		Complies with EN61010; protection class II	
Protection type		Housing and terminal IP 20	
Standards		Complies with EN61326-1	
CE marking		The device complies with the European Directives for electromagnetic compatibility (complies with EN 61326-1).	
General			
	LED displays	Refer to status display of LED's	
	Data backup	Data backup of all parameters in EEPROM (power failure save)	
	Software update	By CAN interface	

Electrical lifetime of relay



NOTE: The lifetime is dependent on the load; for heating -/ cooling operation on switching frequency.

Installation



Connection overview



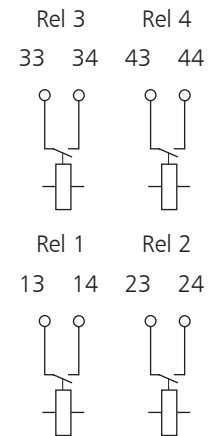
X1	Relay 3, 4
X2	Relay 1, 2
X3	Relay 5, 6
X4	Relay 7, 8
LED OK	Operation display
LED 1...8	Signalizes the status of the relay outputs (yellow; LED flashes, when contact closed)

Pin assignment

X1, X2 Relay

4-pole spring-force terminal

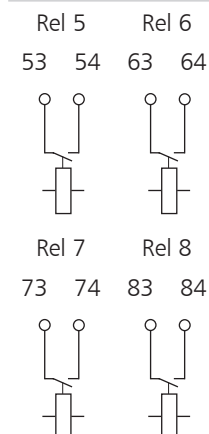
Pin	X1	Function and/or signal	X2	Function and/or signal
1	33	Relay 3	13	Relay 1
2	34	Relay 3	14	Relay 1
3	43	Relay 4	23	Relay 2
4	44	Relay 4	24	Relay 2



X3, X4 Relay

4-pole spring-force terminal

Pin	X3	Function and/or signal	X4	Function and/or signal
1	53	Relay 5	73	Relay 7
2	54	Relay 5	74	Relay 7
3	63	Relay 6	83	Relay 8
4	64	Relay 6	84	Relay 8



Status display of LED's

LED-OK (green)	
flashing (1 Hz)	Boot mode
flashing (2 Hz)	Pre operational mode
Continuous light	Operational mode