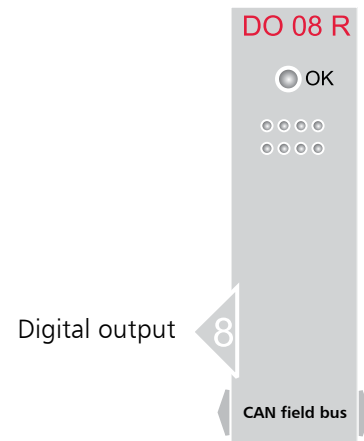


## Digital Output Interface Relay

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

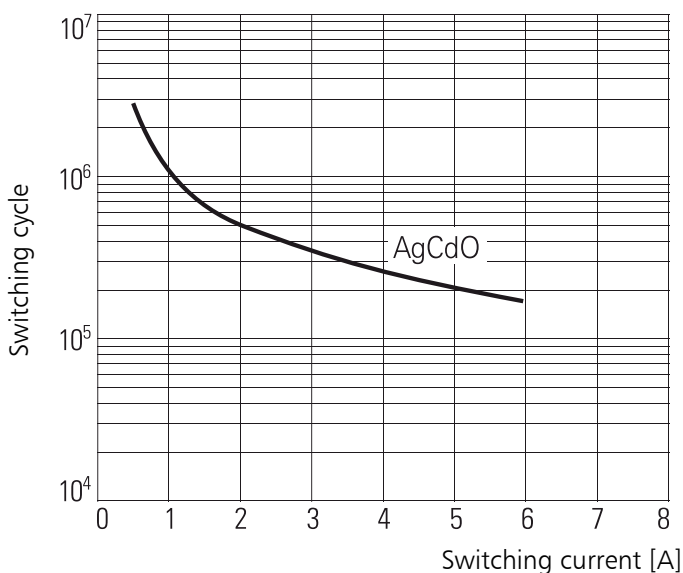
### Ordering designations

	Order number
flexotemp® DO 08 R	025 055

## Technical Data

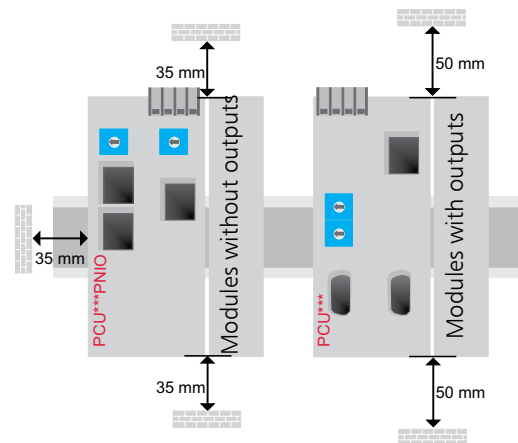
<b>Digital outputs (DO)</b>		Number: 8, configurable by flexotempMANAGER	
	Type	Relay; contact material AgCdO; potential-free contact, □switching characteristics by flexotemp-MANAGER programmable	
	Switching cycle	Lifetime > 30 x 10 <sup>6</sup>	
	Rated voltage	250 VAC / 30 VDC	
	Rated current relay	6 A	
	Overall switching capacity	All 8 channels in sum up to maximum 24 A	
<b>Protection equipment</b>		Reversed polarity of power supply: diode, over voltage of power supply: varistor	
<b>Data interfaces</b>			
	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	
<b>Power supply</b>			
	Rated voltage / max. power consumption	Electronics: 18...30 VDC / < 4 W (internal by system bus)	
	Fuse protection	Electronics: external by PCU and/or CANBC	
<b>Ambient temperature limit</b>		Operation: 0...55 °C, transport, storage: -20...60 °C, operation limit: 0...60 °C	
<b>Atmospheric humidity limit</b>		Operation: 0...90 % relative atmospheric humidity, no condensation Transport, storage: 0...95 % relative atmospheric humidity, no condensation	
<b>Mounting</b>		Installation on DIN rail (DIN 50022); horizontal installation position; see installation	
<b>Connections</b>		Spring-force terminals type FKCT 2.5/2-ST	
<b>Dimensions (H x W x D in mm)</b>		99 x 22.5 x 114.5	
<b>Housing</b>		Phoenix ME 22.5 Bus 10/2	
<b>Weight</b>		0.3 kg	
<b>Electrical security</b>		Complies with EN61010; protection class II	
<b>Protection type</b>		Housing and terminal IP 20	
<b>Standards</b>		Complies with EN61326-1	
<b>CE marking</b>		The device complies with the European Directives for electromagnetic compatibility (complies with EN 61326-1).	
<b>General</b>			
	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

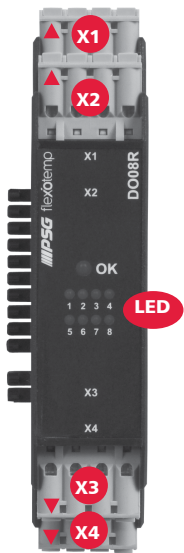


NOTE: The lifetime is dependent on the load; for heating -/ cooling operation on switching frequency.

## Installation



## Connection overview



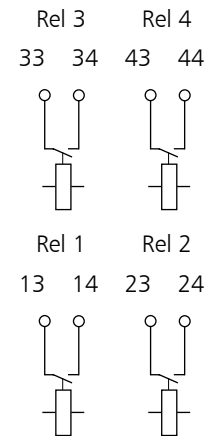
X1	Relay 3, 4
X2	Relay 1, 2
X3	Relay 5, 6
X4	Relay 7, 8
LED OK	Operation display
LED 1...8	Signalizes the status of the relay outputs (yellow; LED flashes, when contact closed)

## Pin assignment

### X1, X2 Relay

4-pole spring-force terminal

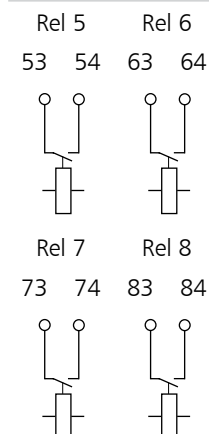
Pin	X1	Function and/or signal	X2	Function and/or signal
1	33	Relay 3	13	Relay 1
2	34	Relay 3	14	Relay 1
3	43	Relay 4	23	Relay 2
4	44	Relay 4	24	Relay 2



### 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