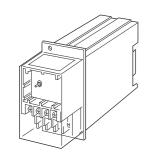
## High-density Signal Conditioners 10-RACK

# **CONTACT OUTPUT MODULE**

#### **Functions & Features**

- Accepting status signals from a DCS
- Controlling valve operations
- External switches enables to switch valve operation to
- manual mode and to direct/reverse actions
- Internal siwtch enables manual operation under DCS control



# MODEL: 10BOS-1-R[1]

## **ORDERING INFORMATION**

#### • Code number: 10BOS-1-R[1] Specify a code from below for [1].

- (e.g. 10BOS-1-R/Q)
- Specify the specification for option code /Q (e.g. /C01)

## INPUT

Status signal from DCS

## OUTPUT

Relay contact (two)

## **POWER INPUT**

DC Power R: 24 V DC (Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

# [1] OPTIONS

blank: none
/Q: With options (specify the specification)

## **SPECIFICATIONS OF OPTION: Q**

COATING (For the detail, refer to our web site.) /C01: Silicone coating /C02: Polyurethane coating **Output:** M3.5 screw terminals (torque 0.8 N·m)

Connection

/C03: Rubber coating

Power input: Supplied from card-edge connector

Construction: Rack-mounted; terminal access via screw

terminals at the front and via card-edge connector at the

Screw terminal: Nickel-plated steel

rear; terminal cover provided

**GENERAL SPECIFICATIONS** 

Housing material: Flame-resistant resin (black)

Input: M3.5 screw terminals (torque 0.8 N·m)

Isolation: Input or power to output

Test switch: LED indicator

## **INPUT SPECIFICATIONS**

Input: Status signal from DCS Coil rating: 24 V DC @ 20 mA max.

## **OUTPUT SPECIFICATIONS**

**Output:** Relay contact (two) **Rating:** 220 V AC @ 5 A (cos  $\emptyset = 1$ ) 24 V DC @ 5 A (resistive load) Electrical life  $\ge 1 \times 10^5$  cycles **Maximum switching voltage:** 264 V AC or 100 V DC **Minimum load:** 5 V DC @ 10 mA **Mechanical life:** 5  $\times$  10<sup>7</sup> cycles For maximum relay life with inductive loads, external protection is recommended.

INPUT						OUTPUT				
MAN/DCS	MAN.S	WITCH	SW	PULSE OUT. CARD		LED	LED	LED	OUTPUT	
SW	FWD	REV		FWD	REV	BACK	FWD	REV	FWD	REV
OFF			AUTO	ON	ON	OFF	ON	ON	ON	ON
					OFF	OFF	ON	OFF	ON	OFF
				OFF	ON	OFF	OFF	ON	OFF	ON
					OFF	OFF	OFF	OFF	OFF	OFF
			FWD	ON	ON	OFF	ON	OFF	ON	OFF
					OFF	OFF	ON	OFF	ON	OFF
				OFF	ON	OFF	ON	OFF	ON	OFF
					OFF	OFF	ON	OFF	ON	OFF
			REV	ON	ON	OFF	OFF	ON	OFF	ON
					OFF	OFF	OFF	ON	OFF	ON
	/	/		OFF	ON	OFF	OFF	ON	OFF	ON
	/				OFF	OFF	OFF	ON	OFF	ON
ON	ON	ON		1 /		ON	ON	ON	ON	ON
		OFF				ON	ON	OFF	ON	OFF
	OFF	ON				ON	OFF	ON	OFF	ON
		OFF			/	ON	OFF	OFF	OFF	OFF

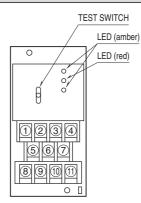
#### INSTALLATION

Current consumption: Approx. 40 mA Operating temperature: -5 to +55°C (23 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Standard Rack 10BXx Weight: 300 g (0.66 lb)

#### PERFORMANCE

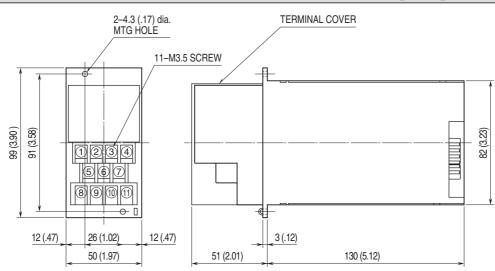
Insulation resistance:  $\geq 100 \text{ M}\Omega \text{ with } 500 \text{ V DC}$ Dielectric strength: 1500 V AC @ 1 minute (input or output to power) 1500 V AC @ 1 minute (output to ground)

#### **EXTERNAL VIEW**

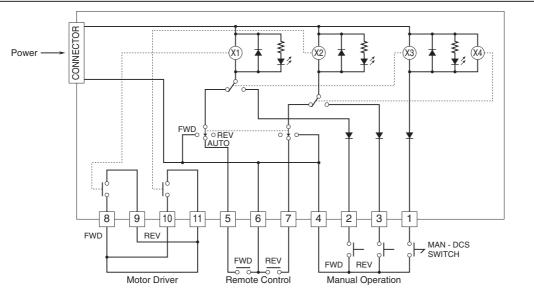


# MODEL: 10BOS

#### EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



# SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.