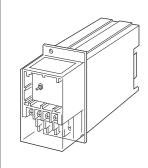
MODEL: 10BOS

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 M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating

/C03: Rubber coating

GENERAL SPECIFICATIONS

Construction: Rack-mounted; terminal access via screw terminals at the front and via card-edge connector at the

rear; terminal cover provided

Connection

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

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

Power input: Supplied from card-edge connector

Screw terminal: Nickel-plated steel

Housing material: Flame-resistant resin (black)

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: 5×10^7 cycles

For maximum relay life with inductive loads, external

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protection is recommended.

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INPUT						OUTPUT				
MAN/DCS	MAN.SWITCH		SW	PULSE OUT. CARD		LED	LED	LED OUTPUT		PUT
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)

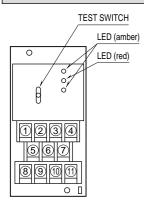
PERFORMANCE

Insulation resistance: ≥ 100 M Ω with 500 V DC Dielectric strength: 1500 V AC @ 1 minute

(input or output to power)

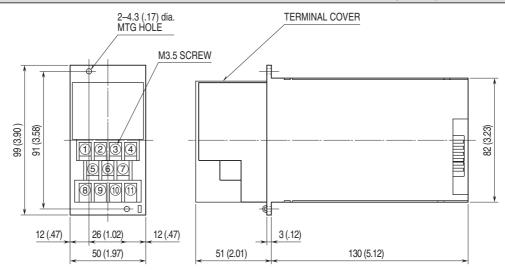
1500 V AC @ 1 minute (output to ground)

EXTERNAL VIEW

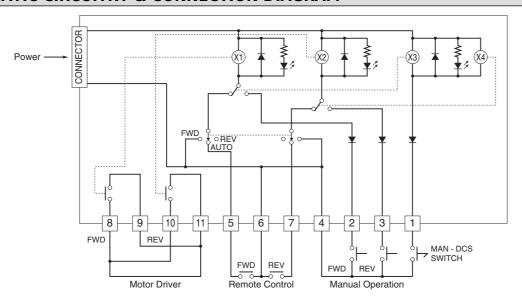


MODEL: 10BOS

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.

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