Remote I/O R8 Series

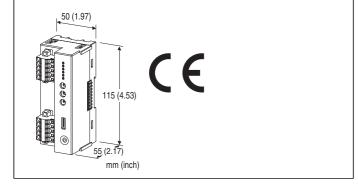
POWER/NETWORK MODULE

Functions & Features

- Free combination of analog and discrete I/O
- Space-saving

Typical Applications

· Remote I/O for DCS and PLC



MODEL: R8-ND1-R

ORDERING INFORMATION

• Code number: R8-ND1-R

MODULE TYPE

ND1: DeviceNet

POWER INPUT

DC power

R: 24 V DC

(Operational voltage range: ±10 %; ripple 10 %p-p max.)

RELATED PRODUCTS

- PC Configurator cable (model: COP-US)
- PC configurator software (model: R8CFG)

The EDS files and configurator software are downloadable at M-System's web site.

PACKAGE INCLUDES...

· Protective cover

GENERAL SPECIFICATIONS

Connection

• Power input, excitation supply: Tension clamp (Front Twin connection)

Applicable wire size: 0.2 - 2.5 mm²

Stripped length: 10 mm

• DeviceNet: Tension clamp (Front Twinconnection) •Internal bus, internal power and excitation supply:

Connector

Max. number of I/O modules: 16

(Max. consumption current of I/O modules: 1.6 A) Isolation: DeviceNet to internal bus or internal power or

power input to exc. supply to FE1 Status indicators: Power, RUN, NS, MS

Data allocation: Mode 1. 2

DeviceNet COMMUNICATION

Node address setting: Set with rotary switch; 00 - 63 Baud rate setting: Set with rotary switch; 125 kbps, 250

kbps, 500 kbps

Transmission cable: Approved for DeviceNet

Stripped length 10 mm

I/O data allocation size: 8 to 64 words (variable)

INSTALLATION

Power consumption

•DC: Approx. 12 W 24 V DC (@ output current 1.6 A)

Internal power •DC: 5 V DC

Operational current: 1.6 A **Excitation supply output** •DC: 24 V DC ±10 % •Operational current: 10 A

(Power output current consumption must be under 10 A) Supply voltage to network: 11 - 25 V DC supplied through

the network terminal block

Supply current to network: 50 mA max.

Operating temperature: -10 to +55°C (14 to 131°F) **Operating humidity**: 30 to 90 %RH (non-condensing)

Atmosphere: No corrosive gas or heavy dust

Mounting: DIN rail Weight: 180 g (0.40 lb)

PERFORMANCE

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

TEL: (02)2598-1199 E-mail: info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

(DeviceNet to internal bus or internal power or power input

to exc. supply to FE1)

STANDARDS & APPROVALS

CE conformity:

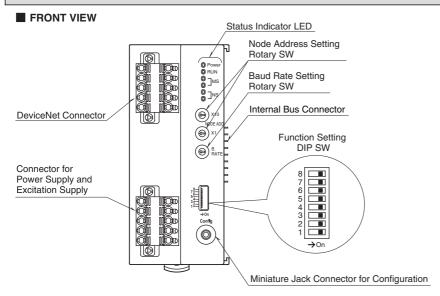
EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007/A1: 2011

EMS EN 61000-6-2: 2005



MODEL: R8-ND1

EXTERNAL VIEW



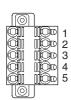
LED	STATE	COLOR	TO INDICATE
Power	ON	Green	Power supplied
RUN	ON / Blink	Green	Turns on or blinks depending on the status
MS	ON	Green	Normal operation
	ON	Red	Critical failure
	Blink		Minor failure
NS	ON	Green	Connections are established
	Blink		Connections are not established
	ON	Red	Critical Link failure
	Blink		Minor Link failure

CONNECTION DIAGRAMS

■ POWER SUPPLY, EXCITATION SUPPLY CONNECTOR TERMINAL ASSIGNMENT ■ NETWORK CONNECTOR ASSIGNMENT

Printed-circuit board connector (Phoenix Contact)

MSTBV2,5/5-GF-5,08AU Header: Plug component: TFKC2,5/5-STF-5,08AU



PIN	ID	FUNCTION
No.	טו	FONCTION
1	24V	Power supply 24V DC
2	0V	Power supply 0V DC
3	+	Excitation supply 24V DC
4	_	Excitation supply 0V DC
5	FE1	Grounding

Printed-circuit board connector (Phoenix Contact) Header: MSTBV2,5/5-GF-5,08AU Plug component: TFKC2,5/5-STF-5,08AU M



PIN No.	ID	FUNCTION
1	V –	POWER (-)
2	CAN_L	Signal Low
3	Drain	Shield
4	CAN_H	Signal High
5	V +	POWER (+)

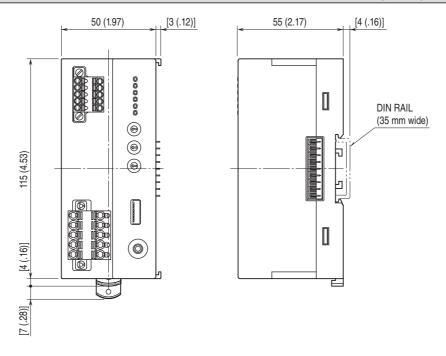


幸託有限公司 **XIN TOP CORPORATION**

FAX: (02)2596-2331 Website: www.xintop.com

MODEL: R8-ND1

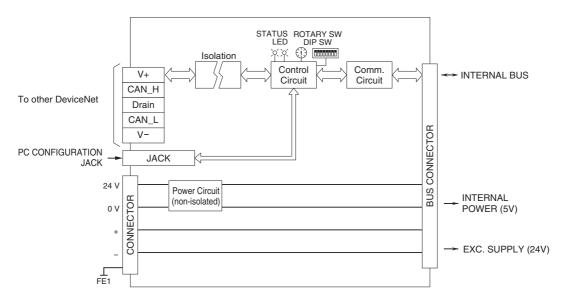
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

Note: In order to improve EMC performance, bond the FE1 terminal to ground.

Caution: FE1 terminal is NOT a protective conductor terminal.



Specifications are subject to change without notice.

幸託有限公司 XIN TOP CORPORATION

FAX: (02)2596-2331 Website: www.xintop.com