moda**LIGHT**®

S P E C I F I C A T I O N

The Pharos RIO 80, 44 and 08 (Remote Input Output) devices provide a convenient and scalable way to add inputs and outputs to a Pharos system for show control and integration. Each device can be placed where it is needed and connected to the Controllers over an Ethernet network. Each RIO has a multi-protocol serial port, supporting DMX input and output, and a combination of multi-functional digital/analog inputs and relay outputs.

CAPABILITIES

Contact Closure	Connect an external volt-free switch between input and ground (internal 2.2kohm pull-up to 5V)
Digital In	Connect an external voltage source between input and ground (24V maximum; internal 2MOhm pull-down to 0V); software-configurable low/high threshold
Analog In	Connect an external voltage source between input and ground (24V maximum); software-configurable range
Relay Outs	Individually isolated (1KV) relay outputs (48V 250mA)
Serial Data	RS232, RS485; configurable port; send/receive free syntax in ASCII, HEX or decimal
DMX Out	96 channels (USITT E1.11-2008)

INTERFACES

Ethernet	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Fixed IP or DHCP; Power-over-Ethernet (PoE)
Serial	RS232 / RS485 / DMX out *
Inputs	Individually selectable operating mode for contact closure, digital or analog input (24V maximum) *
Relay Outs	Individually isolated (1KV) relay outputs (48V 250mA) *

* Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)

ORDER CODE & VARIANTS

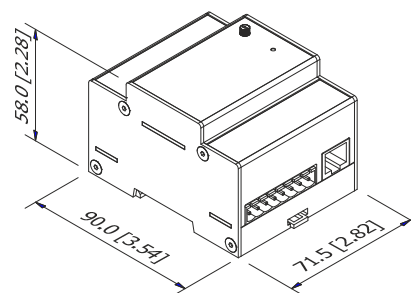|	
RIO 80	Remote Input Output Device 80 (8 input, 0 output, Serial/DMX)
RIO 44	Remote Input Output Device 44 (4 input, 4 output, Serial/DMX)
RIO 08	Remote Input Output Device 08 (0 input, 8 output, Serial/DMX)
	Pharos Controller required

Project Name:

Notes:

SPECIFICATION

Certifications	CE compliant, ETL/cETL listed
Power	PoE (IEEE802.3af, Class 1) 1.5W typical
Required	Any Pharos Controller
Addressing	By rotary selector switch
Temperature	0°C to 50°C (32°F to 122°F)
Physical	4 unit wide DIN rail mounting enclosure (DIN43880 / EN60715 (35/7.5 rail))
Weight	0.3 kg (0.7 lbs)
Shipping	20 x 15 x 12 cm (8" x 6" x 5") 0.5 kg (1.1 lbs)
Recovery	Hardware watchdog and recessed reset button
Warranty	5 years

DIMENSIONS

STANDARDS & CERTIFICATIONS