



Type(s)
Project
Date
Notes

GENERAL INFORMATION

Pharos Repeat is a convenient DMX512 splitter/repeater with four output ports compatible with the RDM standard (ANSI E1.20), providing DMX distribution to luminaires. The incoming isolated DMX signal from your controller is regenerated four times on isolated, self-healing ports for distribution to your fixtures. This DIN rail mount repeater with install-friendly connectors requires a power supply in the range of 9–48 VDC.

APPLICATION

- DMX splitters are an essential requirement for most control systems, allowing multiple separate cable runs from a single DMX output and ensuring electrical isolation.

FEATURES

- Installer Friendly** - Made for permanent installation, with installer-friendly 0.200" (5.08 mm) plug-in rising clamp terminals, flexible power requirements from 9–48 VDC, and easy DIN rail and keyhole mounting options.
- Isolation** - The input and output ports are independently galvanically isolated, ensuring the control circuitry and each port of the Repeat is protected against a multitude of electrical line faults, including earth potential rise and ground loops.
- Protection** - Repeat is equipped with four self-healing DMX ports, giving your equipment added protection from unwanted energy, such as miswiring, short circuits, and surge events caused by lightning. Should a fault occur, it will be contained by the Repeat, preventing it from flowing into other components in the system; once the external fault is cleared, the ports "self-heal", restoring DMX output automatically.
- Four Port Outputs** - Repeats a DMX signal to four outputs, each output allowing for 32 DMX devices to be connected.
- RDM** - Supports the Remote Device Management protocol (ANSI E1.20) allowing devices connected to any of the four outputs to be discovered and to communicate back to controllers over the DMX link.
- Reliability** - Made for permanent installation and designed for 24/7 operation and reliability.

ORDERING INFORMATION

DMX Repeat

Model	Description	Part Number
PAC R	Pharos Accessory, DMX Repeat	7180A1444

Compatible Controllers

Model	Description	Part Number
XPC 1	Express 1U DIN rail Control	7180A1421
XPC 2	Express 2U DIN rail Control	7180A1422
XPC 4	Express 4U DIN rail Control	7180A1423
XPC 6	Express 6U DIN rail Control	7180A1424

Related Products

Model	Description	Part Number
XPT 5 B	Express 5 in Touchscreen, Black	7180A1431-4
XPT 5 W	Express 5 in Touchscreen, White	7180A1431-5
XPT 8 B	Express 8 in Touchscreen, Black	7180A1432-4
XPT 8 W	Express 8 in Touchscreen, White	7180A1432-5
RIO G 4	Pharos RIO G4	7180A1441
RIO D 4	Pharos RIO D4	7180A1442
PAC S	Pharos Accessory, NET Switch	7180A1445



SPECIFICATIONS

FUNCTIONAL

- One DMX/RDM input port and four DMX/RDM output ports on a pluggable rising clamp connectors (ANSI E1.11–2024), RDM compatible.
 - Repeats a DMX signal to the four DMX/RDM outputs, each allowing for connection of up to 32 DMX devices.
- Supports the Remote Device Management protocol (ANSI E1.20) allowing devices connected to any of the four output ports to be discovered and communicate back to the controllers over the DMX data link.
- LED status indicators for Power, Active, DMX, RDM, and Error.

MECHANICAL

- Six-unit wide DIN enclosure complies with DIN43880 and EN60715 (35/7.5 rail).
- IP40 ingress rating.
- Compact, plastic enclosure.
- 9–48 VDC power input on pluggable rising clamp terminals.
- One DMX/RDM input port on a pluggable rising clamp connector (ANSI E1.11–2024), RDM compatible.
- Four DMX/RDM output ports on pluggable rising clamp connectors (ANSI E1.11–2024), RDM compatible.
- Recessed power Reset button.

ELECTRICAL

- Self-healing ports can withstand continuous AC voltage up to 300 V.
- All input and output ports are independently galvanically (capacitive) isolated.
 - Isolation protection of 2500 Vrms.
- PAC R requires 9–48 VDC power input on a pluggable rising clamp connector (4 W typical draw.)

THERMAL

- Ambient temperature: 0°C to 50°C (32°F to 122°F).
- 10%–90% relative humidity, non-condensing.

REGULATORY AND COMPLIANCE

- CE Compliant, UKCA Compliant, cULus Listed.

WARRANTY

- See etcconnect.com/warranty/ for details.

PHYSICAL

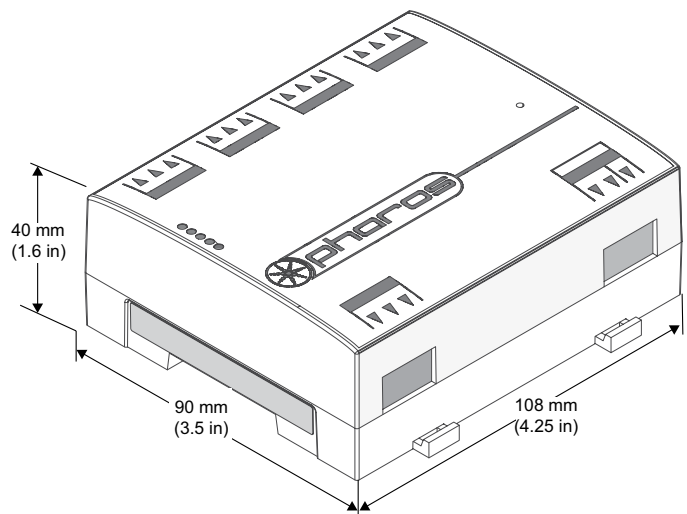
Pharos Repeat Dimensions†

MODEL	HEIGHT		WIDTH		DEPTH	
	mm	in	mm	in	mm	in
PAC R	90	3.5	108	4.25	40	1.6

Pharos Repeat Weights†

MODEL	WEIGHT		SHIPPING WEIGHT	
	kg	lb	kg	lb
PAC R	0.2	0.5	0.4	0.9

†Weights and dimensions typical.



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