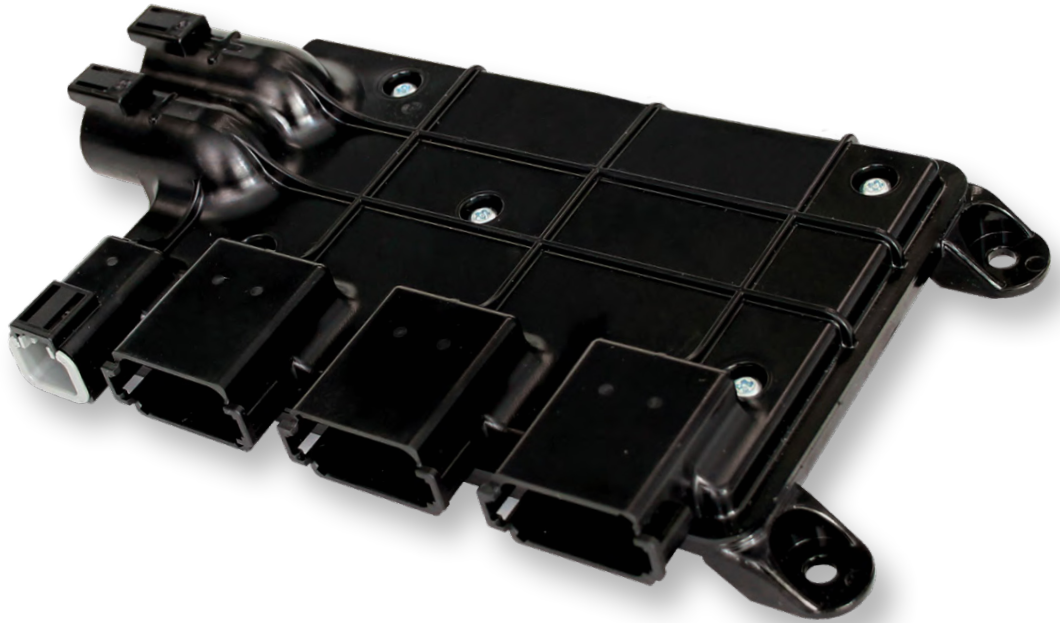


More Reliable Than Fuse and Relay Technology

Compact, Sealed, Robust Enclosure

Enhanced Diagnostics and Protection

Cuts Wire Harness Costs



POWER DISTRIBUTION MODULE FOR INTEGRATED MACHINE AND EQUIPMENT CONTROL

Murphy's PowerCore Intelligent Xpansion module expands CAN bus control networks by replacing existing relay and fuse boxes with more reliable, solid-state switches that can directly drive work lights, wiper motors, cooling fans, directional DC motors and other high-current loads.

Each of the 12 PDM outputs can switch or proportionally control up to 15 A loads in 2.5 A increments and feature over-current detection and shut-down capability. Outputs are paired to run up to six electric motors with H-bridge

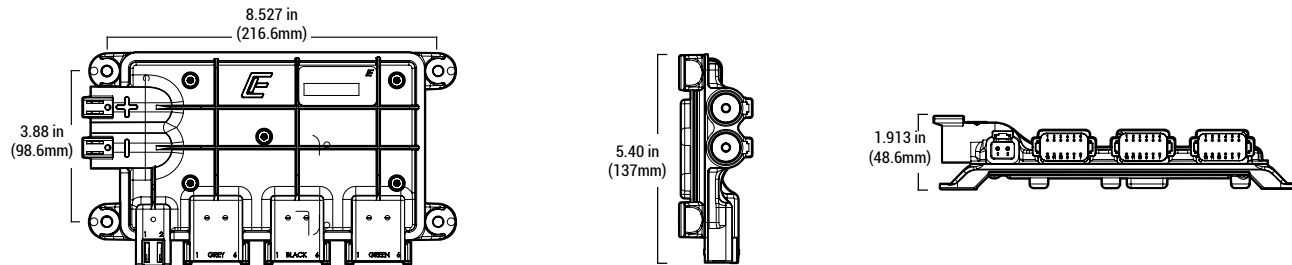
direction control. Twelve digital inputs monitor switched battery, ground and floating inputs. Additionally, eight 0-5V analog inputs are available with a 5V sensor supply.

Wiring length is reduced, and harness costs are cut by remotely locating the IX module near loads and signals. Then the I/O is multiplexed using a CAN bus network, which allows engineers to greatly simplify harness design for ease of installation and improved reliability. For applications not requiring a CAN bus control, the inputs can directly trigger outputs without a need for a separate controller.





PDM DIMENSIONS



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PDM SPECIFICATIONS

HARDWARE		ENVIRONMENTAL	
CONNECTORS	Deutsch (3) DT series, DTP series, and DT HD series	OPERATING TEMPERATURE	-40° to +185°F (-40° to +85°C)
COMMUNICATION		STORAGE TEMPERATURE	-40° to +275°F (-40° to +135°C)
CAN	CAN 2.0B Active, Default protocol SAE J1939, Baud rate 250 Kbit	PROTECTION	IP66 and 67, SAE J1455 4.5.3 (10,300 kPa @ 50° C and 100 mm away for 15 min)
ELECTRICAL		VIBRATION	5-25 g, 50-2000 Hz, 72 hrs per axis
OPERATING VOLTAGE	12V – 24V systems (8-32 V) Reverse Polarity Protection	SHOCK	30 g, 3 cycles
INPUTS	(12) digital state (high side, low side, open) (6) analog (0 -5 VDC), (2) analog (resistive)	HOUSING	Internally potted, combination PBT and E-coated cast aluminum with integrated mounting feet
OUTPUTS	(12) Digital High current (15 A each/70 A total configurable as High-side, PWM or up to 6 H-bridge pairs)	RADIATED IMMUNITY	Tri-plate test 100 V/M 10 KHz – 1 GHz
		DIMENSIONS	Width: 5.40 in. (137 mm) Height: 1.913 in. (48.6 mm) Length: 9.64 in. (245 mm)
		WEIGHT	2 lb. (90 gram)

FOR MANUALS, SUPPORT DOCUMENTS, AND WIRING DIAGRAMS PLEASE VISIT:

www.macquarrie.com.au/collections/can-i-o-devices