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Specialty Product Matrix

Electronic Control Solutions for the Global Fluid Power Industry

Design Item												
Model Number	**HFS**	**HFS-2**	**HFS-2Q**	**HFS-J-Bus**	**HFS-J**	**emc-1**	**emc-3**	**HGC-2**	**PLD, Power-Line**	**HAU**	**HAD**	**PTD**
Function	Hydraulic Fan Control					Electric Fan Control		Generator Controller	Multi Function Controller	Analog Proportional Valve Driver		
Used For	Closed loop Systems	Closed loop w/ ***reversing***		Closed loop w/ J1939 w/ ***reversing***		Electric motor cooling system controller w/ ***reversing***		Monitors the AC line voltage from the generator	Open or Closed loop Control; HP Limiter, Speed Control	Open loop	Open loop	Open loop
# Coils	Single	Single		Single	Single	Single	Contact HCT	Single	Single (S/W Select) or Dual	Single	Dual	Single
Control Input	(3) Thermistor, (2) Digital	(3) Thermistor, (1) Digital		(1) J1939 SPN986, (1) Thermistor, (2) Digital	(3) J1939, (2) Thermistor, (2) Digital		SAEJ1939, (3) Universal, (3) Analog, (8) Digital	Frequency: 100 to 250 VAC (RMS), 50/60 Hz	4 to 20mA, 0V to +5V, 0V to +10V & Pulse	-5V to +5V, 0V to 5V, 0V to 10V, 4 to 20 mA		0 to 10VDC OR 4 to 20mA
Coil Current	0 to 3.3 A	0 to 3.3 A		0 to 3.3 A	0 to 3.3 A	0 to 5 VDC		600mA, 1.2A, 2.5A	0 to 3.0 Amps	31 mA to 5.0A	31 mA to 5.0A	1,200 mA @ 12V 600 mA @ 24V
Voltage Range	10.0 to 32.0 VDC	10.0 to 32.0 VDC		10.0 to 32.0 VDC, J1455				9.0 to 28.0 VDC	10.0 to 32 VDC	10.0 to 32.0 VDC		12V & 24V nominal
Connector Kit	999-10088	Included	999-10163	999-10155			999-10077	999-10073	-	-	-	N/A
Connector	12-Pin Deutsch	Weidmuller	WeatherPack	12-Pin Deutsch			30 & 18-Pin Metri-Pack	8-Pin Deutsch	Opt WeatherPack	Opt WeatherPack		3M cable to DIN 43650
Customer Programmable	Y	Y		Y	Y	Y	Y	Y	Y	-	-	N/A
Diagnostic onboard LED's	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
Mobile Equipment	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
Opto3000	Y	Y		Y	Y	Y	N	999-10166	Y	-	-	N/A
Software P/N:	023-00182	023-00196		023-00218	023-00218	023-00218	998-00009	023-00228	023-00206	NA	NA	N/A
Reference output	-	-		-	-	-	5V @ 500 mAmps		4.5 V @ 25 mW	9 V @ 100 mW		+8VDC @ 5mA
PWM Output	1	1		1	1	1	3 Output Groups	1	1 or 2	1	2	1
CE Compliance	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sealing	Designed to meet IP68	Designed to meet IP68 (Conn. derate)		Designed to meet IP68	Designed to meet IP68	Designed to meet IP68	Designed to meet IP68	Designed to meet IP67	Designed to meet IP65	Designed to meet IP65		IP67
Temperature, Operating	-40 to +75 Deg C	-40 to +75 Deg C		-40 to +75 Deg C	-40 to +75 Deg C	-40 to +75 Deg C	-40 to +85 Deg C	-40 to +75 Deg C	-40 to +75 Deg C	-20 to +60 Deg C		-20 to +70 C
Physical	94 L x 94 W x 13 H mm	94 L x 94 W x 13 H mm		94 L x 94 W x 13 H mm	94 L x 94 W x 13 H mm	94 L x 94 W x 13 H mm		94 L x 94 W x 13 H mm	94 L x 94 W x 13 H mm	70 L x 70 W x 10 H mm	94 L x 94 W x 10 H mm	94 L x 94 W x 13 H mm

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