

Inteli RPU



Order code: EM1RPUXXBZB Redundant Protection Unit

Datasheet

Product description

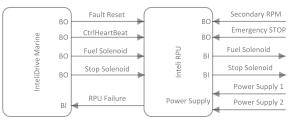
- Redundant Protection Unit designed for Marine Applications
- Robust & easy-to-use
- Ensuring basic functionality when the main unit fails
 - Fuel solenoid and Stop solenoid control
 - Overspeed protection with analog RPM setting
- Built-in self-diagnostics

Key features

- Ensures basic function of an engine when main controlling unit fails
 - Fuel solenoid control
 - Stop solenoid control
- Basic protections support
 - Overspeed
 - Emergency stop
- Automatic fault reset & Conditioned main unit control return
- Dedicated WatchDog for main unit monitoring
- Two independent Power supply inputs
- System status indication by LED
- Robust analog Overspeed level setting (dip-switch)

Application overview

InteliDrive Marine with Inteli RPU





Technical data

Power supply

Power supply range	8-36 VDC
Power consumption	0.1 A / 8 VDC
	0.07 A/ 12 VDC
	0.04 A / 24 VDC
	0.03 A / 36 VDC
Fusing	1 A

Operating conditions

Operating temperature	-40°C to + 70°C
Storage temperature	-40°C to + 80°C
Operating humidity	95 % w/o condensation
Vibration	2 - 25 Hz, ± 1.6 mm 25-100 Hz, a = 4 g
Shocks	a=500 m/s ²

Binary input ES

Number	1 non-isolated (ESTOP dedicated)
Close indication	Negative Power supply terminal
Emergency stop condition	Open contact

Binary inputs CU

Number	2 direct to binary outputs via relay
Close/Open indication	N/A, wired directly to outputs via relay

Binary inputs CONTROLLER

Number	2 isolated
Close/Open indication	0 - 2 V - close contact
	4 V - Vs - open contact

Binary outputs CONTROLLER

Number	1 isolated
Max current	10mA continuous
Туре	OptoRelay

Binary outputs ENG

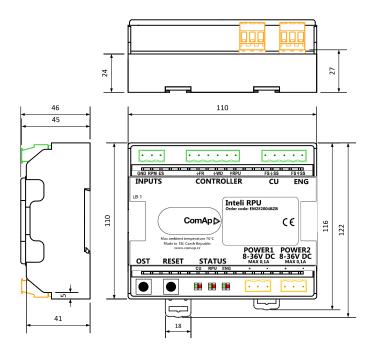
Number	2 Non-isolated
Max current	0.5A continuous
Туре	Low-side switch (controller switches output to negative power supply terminal)

Magnetic pick-up

	4 Vpk-pk to 50 Vpk-pk (@4Hz to 1kHz)
Voltage input range	6 Vpk-pk to 50 Vpk-pk (@1kHz to 5kHz)
voltage liiput lange	10 Vpk-pk to 50 Vpk-pk (@5kHz to
	10kHz)
Frequency input range	4 Hz to 10 kHz
Frequency measurement tolerance	0.2 % from range 10kHz

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Dimensions, terminals and mounting



Note: This unit is DIN rail mounted.

Related products

Product	Description	Order code
Any ComAp engine controller	This redundant unit can be used in combination with any ComAp controller that controls engine	N/A

Functions and protections

Description	ANSI code
Emergency stop	5
Overspeed	12

Certificates and standards (pending)

ISO 16750-2_4.6.2	GL2012 Guidelines for the performance	IEC 60068-2-1_Ad
IEC 60533_7.2	of type approvals tests	IEC 60068-2-1_Ab
IEC 60533_7.2.4	IEC 60529	IEC 60068-2-30_Db
EN 61000-4-29	UL508	IEC 60092-504
EN 60068-2-6_Fc	EN 60068-2-14	EN61000-4-2
EN 60068-2-27_ed2	EN61000-4-3_ed3	EN61000-4-6_ed3
▶ UL764C	► EN61000-4-4_ed2	EN61000-4-8
► IEC 60068-2-2_Bd	EN61000-4-5_ed2	EN61000-6-4



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