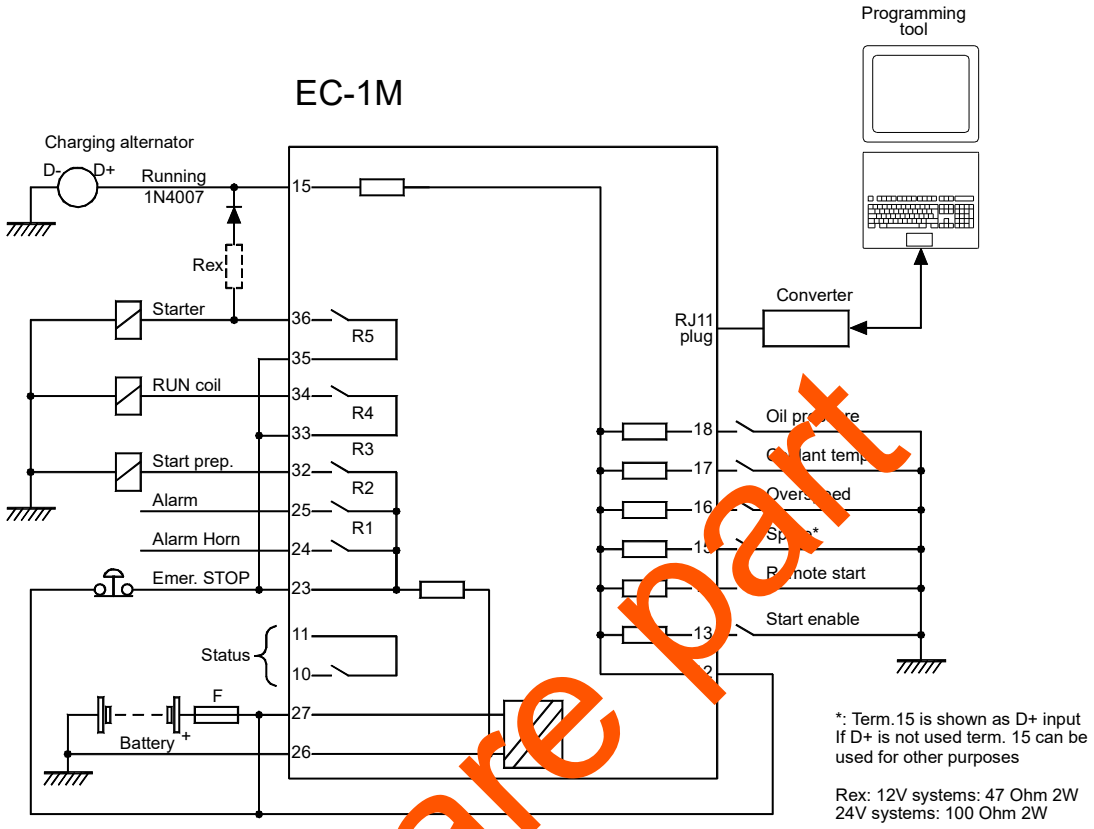
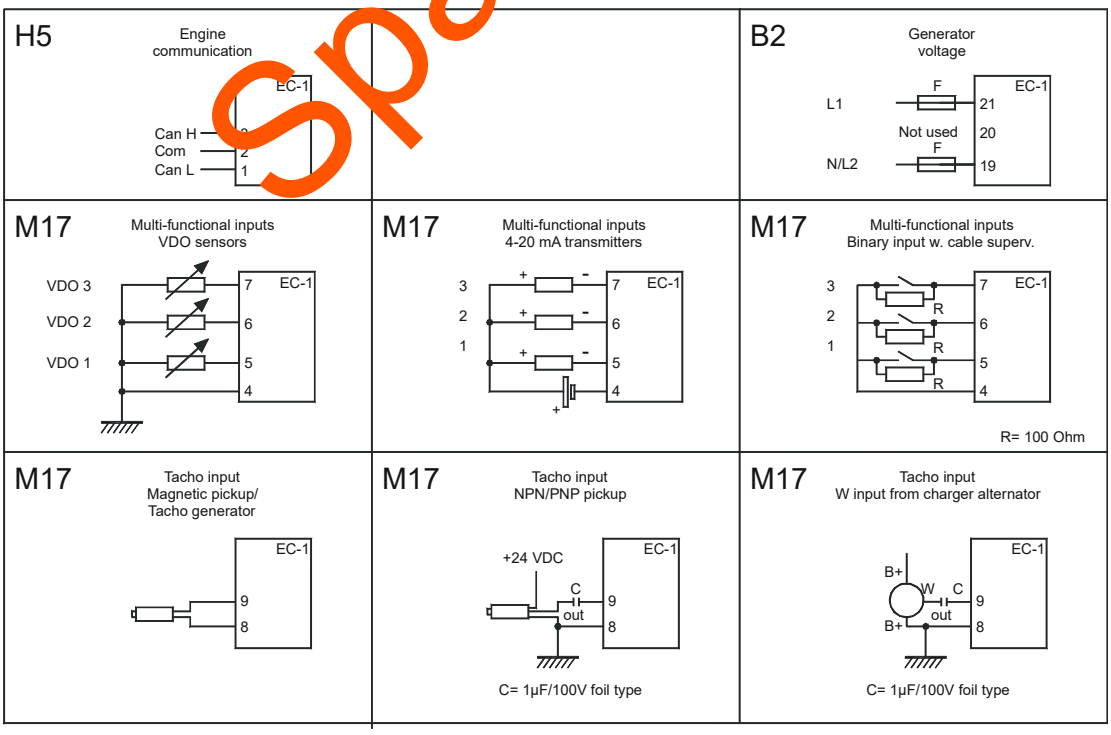
Wiring

F: Fuse: 2A slow-blow.





Engine Controller (Marine) EC-1M

Technical specifications

Accuracy:	Class 2.0 to EN 60688/IEC 688
Operating temp.: (UL/cUL Listed:	-25…70°C Max. ambient temp. 40°C/104°F)
Storage temp.:	-40…70°C
Measuring input voltage: (UL/cUL Listed:	50…550V AC phase to phase 50…300V AC)
Load:	1.5 MΩ
Frequency:	30…70 Hz
Pick-up input voltage: Frequency:	0.5…70 V peak 10-10000 Hz
Aux. supply: (UL/cUL Listed:	6…36V DC continuously 12/24V DC) Max. 8 W consumption
Passive binary in voltage:	Bi-directional optocoupler 8…36V DC
Impedance:	4.7 kΩ
VDO inputs:	Resistor inputs, internal 4 V supply
Analogue input:	From active transducer
Current:	4…20 mA
Impedance:	50 Ω
Active binary in internal voltage:	Dry contact inputs (note 1) 4V DC supply, with cable supervision
Impedance:	240 Ω ~ 16 mA
Relay outputs:	
3 relays: (UL/cUL Listed:	30V DC/AC 2A 30V DC 2A resistive)
2 relays: (UL/cUL Listed:	30V DC/AC 8A 30V DC 4A resistive)
1 status relay: (UL/cUL Listed:	24V DC 1A 24V DC 1A)

Mounting:	Panel mounted
Size:	78 x 106 mm
Climate:	-25…70°C to IEC 60068-2-1/2 97% RH to IEC 60068-2-30
Display:	122 x 32 pixel back-light STN
Safety:	To EN 61010-1, installation category (overvoltage category) III, 600 V, pollution degree 2
Protection:	Front: IP52 (IP54 with gasket, option L) Terminals: IP20 To IEC 529 and EN 60529
EMC/CE:	To EN 61000-6-1/2/3/4 SS4631503 (PL4) and IEC 255-3
Material:	All plastic materials are self-extinguishing according to UL94 (V1)
Plug connections:	AC voltage inputs: 3.5 mm² multi-stranded Other: 1.5 mm² multi-stranded
PC connection:	RS232 converter box (option J5)
Approval:	UL/cUL to UL 508 Major classification societies (see www.deif.com for details)
Weight:	Approx. 0.7 kg (1.5 lbs)
UL markings:	
Wiring:	Use 60/75°C copper conductors only AWG 30-12
Terminal tightening torque:	5-7 lb-in
Mounting:	For use on a flat surface of a type 1 enclosure
Installation:	To be installed in accordance with the NEC (US) or the CEC (Canada)

Note 1: Only 3 inputs are available.

It is possible to combine VDO inputs with binary and 4…20 mA inputs in a mix.

Data sheet

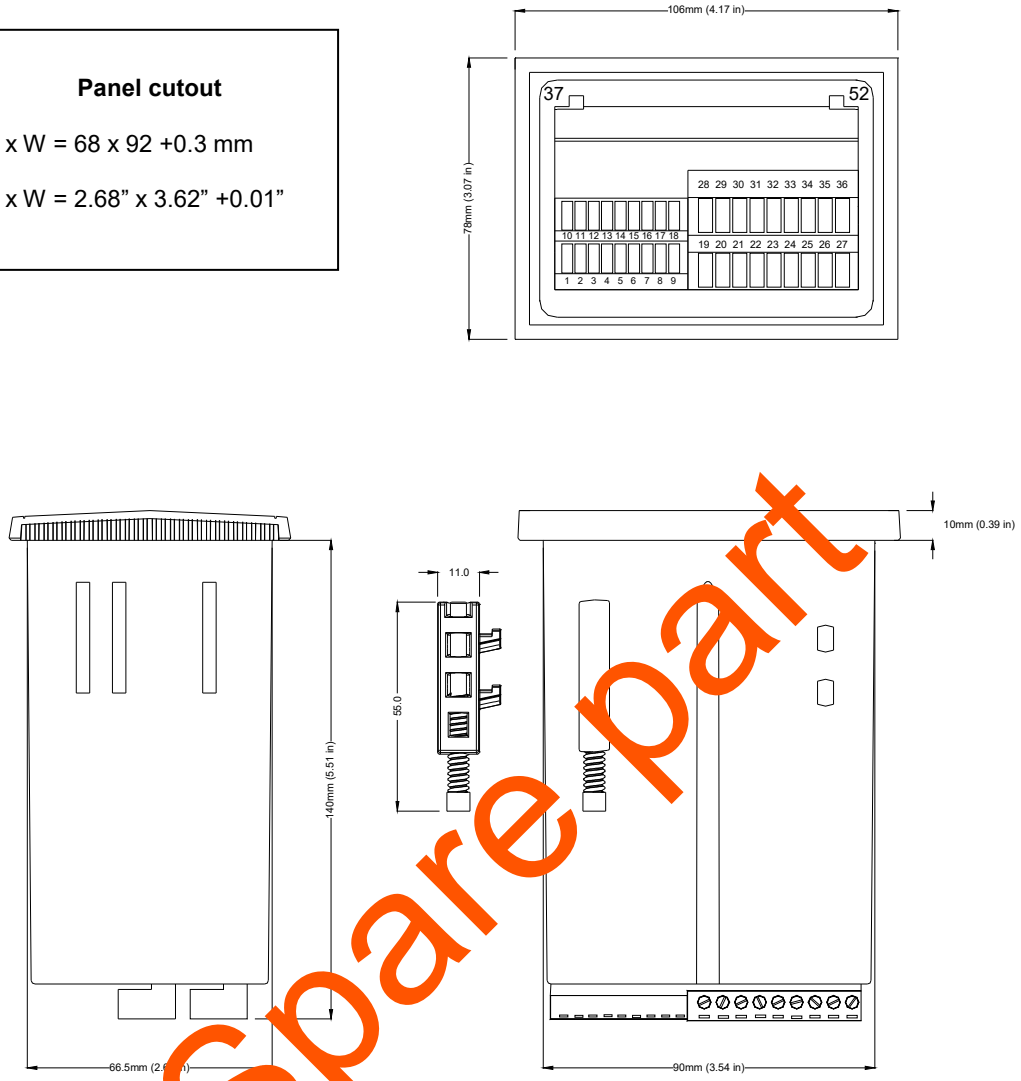
Engine Controller (Marine) EC-1M

Unit dimensions

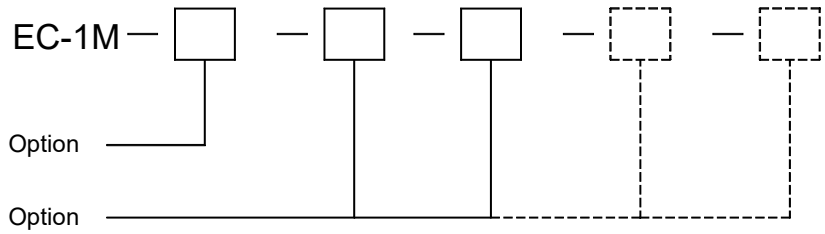
Panel cutout

H x W = 68 x 92 +0.3 mm

H x W = 2.68” x 3.62” +0.01”



Order specifications



Due to our continuous development we reserve the right to supply equipment which may vary from the described.

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