

1. Description

The *COM Module* is compatible with E-MAAX CSR, PRO, and PLUS series regulators The *COM Module* provides two functions:

- 1. A USB connection point for a PC to display system data.
- 2. Houses a Field Reduction Switch (FRS) which commands the regulator to reduce the alternator's field coil current to 50% of its nominal value for the current charging conditions. The 50% reduction reduces engine load in conditions where maximum engine power is desired.

The FRS is activated by the depression of the white button on the housing for two seconds; the FRS can be manually de-activated by again pressing the same button for two seconds. An LED provides a visual indication of the switch status state by the sequence of flashes.

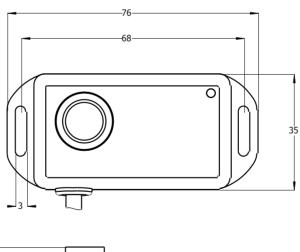
The LED flashes every 2 seconds to indicate the FSR is functional and the alternator output is at 100% of its nominal value, Activation of the FSR the LED flashes 3 times in a second and the alternator output is reduced.

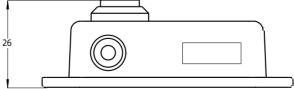
When the engine ignition is switched off, the indicator is not lit and the FRS is re-set to 100%.

2. Specifications

Value	Units
200	grams
PVC	-
-40 +125	Celsius deg
IP 56	-
3	G
90	%
	200 PVC -40 +125 IP 56 3

3. Dimensional outline





All units are millimeters

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USA:

Unit 9, 2045 Niagara Falls Blvd, Niagara Falls, NY, 14304

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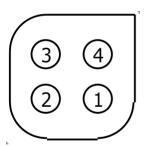
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3. Electrical specifications

Parameter	Value	Units
DC voltage supply range	620	Volts
Current consumption	0.020	Amps
LED color	Green	-
Visual indication flashing	0.5 (Field Reduction Switch inactive)	Hz
frequencies	3.0 (Field Reduction Switch active)	
Cable ratings	Gauge: 20 AWG	-
	Material: tinned copper strands	
	Strand size: Ø 0.16 mm	
	Insulator Material: PVC	
	Jacket Color: black	
	Diameter: 5.5 mm	
Communications format	RS-485	-
Wire colors designations	black – battery negative (isolated from the housing)	-
	red – DC supply (isolated from the housing)	
	white – communication lead "A"	
	yellow – communication lead "B"	
Connector pin-out	1 - black – battery negative	-
	2 - red – DC supply	
	3 - white – communication lead "A"	
	4 - yellow – communication lead "B"	

4-pin connector pins, view from the cable side (insertion)



Notice

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