



FFL800DPV449

Diesel engine fire pump controller, supply 12-Product designation 24VDC, built-in RS485, expandable with EXP.. modules Product type designation FFL...DP Auxiliary supply Rated auxil. supply voltage 12/24VDC 7.5...33VDC Operating auxil. supply voltage range Voltage inputs Rated voltage Us VAC 100 min Max VAC 250 50...264 Measurement range Hz Frequency range 45...65 Engine running input (D+) for pre-excited alternator Operating range **VDC** 0...33VDC Maximum input current mA 0.5mA 12 or 24 VDC **VDC** Max voltage at D+ terminal (battery voltage) 210mA at 12VDC Pre-excitation current / 130mA at 24VDC Engine speed input (pick-up/W input) Input type AC coupling Minimum reading frequency voltage ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp High sensitivity (3.5Vrms) at 20000Hz ≥3.7Vpp (1.3Vrms) at Low sensitivity 40Hz ≥7Vpp (2.5Vrms) at 2000Hz $> 100k\Omega$ Mearusing input impedance Max iput voltage 84Vpp (30Vrms) Pinion input 0...33VDC Voltage range Input current ≤8mA Threshold adjustable Input delay adjustable NTC probe input NTC (LOVATO Sensor type code NTC01) Measuring range °C -40...+85 Maximum connection lenght mt 3m Digital inputs Number of digital input Nr. 10 Digital input type Negative Digital input current mΑ ≤6



ENERGY AND AUTOMATION

High digital input signal			V	≥4.9V (typical 3.8V)
Low digital input signal			V	≤1.25V (typical 1.9V)
Digital input signal delay			ms	≥50
Relay outputs				
Number of relay output			Nr.	10
Mechanical endurance				107
Electrical endurance				10⁵
Static Outputs				
Number of static output				1 (OUT11)
Static output type				NO
Operating voltage			V	1030VDC
Maximum current			mΑ	50mA
RS485 serial interface				
Interface type				Isolated RS485 serial interface
Baud rate			bps	1200115200
Insulation voltage (RS4	85-Vbatt)			1kVDC
Connections				
Type of terminal				Removable screw-type
Conductor cross section	n			71
	AWG/Kcmil			
		min	AWG	24
		Max	AWG	12
	IEC			
		min	mm²	0.2
		Max	mm²	2.5
Tightening torque for terminals				
		max	Nm	0.56
		max	Ibin	5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+70
	Storage temperature			
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80% (IEC/EN 60068-2-78)
Housing				
Execution				Flush-mount
Material				Polycarbonate
Degree of protection				IP65 Frontal; IP20 on terminals
Dimensions (W x H x D)		mm	240 x 180 x 43.9
Weight			g	980
ETIM classification				
				EC002685 -
ETIM 8.0				Central fire alarm
				control panel