

ENERGY AND AUTOMATION

Product designation			Diesel engine fire pump controller, supply 12- 24VDC, built-in RS485, not expandable
Product type designation			FFLDP
Auxiliary supply			
Rated auxil. supply voltage			12/24VDC
Operating auxil. supply voltage range			7.533VDC
Voltage inputs			
Rated voltage Us			
	min	VAC	100
	Max	VAC	250
Measurement range		V	50264
Frequency range		Hz	4565
Engine running input (D+) for pre-excited alternator			
Operating range		VDC	033VDC
Maximum input current		mA	0.5mA
Max voltage at D+ terminal		VDC	12 or 24 VDC (battery voltage)
Pre-excitation current			210mA at 12VDC / 130mA at
= · · · · · · · · · · · · · · · · · · ·			24VDC
Engine speed input (pick-up/W input)			4.0
Input type			AC coupling
Minimum reading frequency voltage  High sens	sitivitv		≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp
g.,	,		(3.5Vrms) at 20000Hz ≥3.7Vpp
Low sens	sitivity		(1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at 2000Hz
Mearusing input impedance			> 100kΩ
Max iput voltage			84Vpp (30Vrms)
Pinion input			
Voltage range			033VDC
Input current			≤8mA
Threshold			adjustable
Input delay			adjustable
NTC probe input			
Sensor type			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		mA	≤6
High digital input signal		V	≥4.9V (typical 3.8V)



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Low digital input signa	ı		V	≤1.25V (typical 1.9V)
Digital input signal del	ay		ms	≥50
Relay outputs				
Number of relay outpu			Nr.	10
Mechanical endurance				107
Electrical endurance				10⁵
Static Outputs				4 (OLIT44)
Number of static output	ut			1 (OUT11) NO
Static output type Operating voltage			V	1030VDC
Maximum current			mA	50mA
RS485 serial interface			IIIA	JUIIA
110400 Senai interiace	5			Isolated RS485
Interface type				serial interface
Baud rate			bps	1200115200
Insulation voltage (RS	485-Vbatt)			1kVDC
Connections				
				Removable
Type of terminal				screw-type
Conductor cross sect				
	AWG/Kcmil			
		min	AWG	24
		Max	AWG	12
	IEC			
		min	mm²	0.2
Timber air a tenance for t	a made ata	Max	mm²	2.5
Tightening torque for t	erminais	****	Nina	0.50
		max max	Nm Ibin	0.56 5
Ambient conditions		IIIdX	IDIII	3
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-25
		max	°C	+70
	Storage temperature			
	Ctorago tomporataro	min	°C	-30
		max	°C	+80
Dolotivo humiditu			%	<80% (IEC/EN
Relative humidity			70	60068-2-78)
Housing				
Execution				Flush-mount
Material				Polycarbonate
Degree of protection				IP65 Frontal;
	D)			IP20 on terminals
Dimensions (W x H x	U)		mm	240 x 180 x 43.9
Weight			g	980
ETIM classification				EC002685 -
ETIM 8.0				Central fire alarm
0.0				control panel