

Product designation			Remote alarm panel with LCD display and buzzer, built-in RS485, for up to 3 fire pump controllers, expandable with EXP... modules
Product type designation			FFLRA400
Auxiliary supply			
Rated auxil. supply voltage			100...240VAC
Operating auxil. supply voltage range			90...264VAC
Operating frequency range			Hz 47...63Hz
Battery circuit			
Battery rated voltage			VDC 12
Charging voltage			VDC 13.6
Battery type			"12V 2A Pb GEL or AGM Yuasa NP2.3-12, Fiamm FGV20201 or equivalent (battery not supplied with FFLRA400)"
Battery dimensions			mm 178 x 34 x 65
RA communication input			
Input type			From specific RA output present on Lovato FFL...EP/DP controllers
Input voltage			VDC 12
Input current			mA ≤8
Cable type			Twisted-pair, min. cross section 0.5mm <sup>2</sup>
Max cable length			m 1000
Digital inputs			
Number of digital input			Nr. 6 (5 programmable)
Digital input type			Negative
Digital input current			mA ≤8
High digital input signal			V ≥3.4
Low digital input signal			V ≤2.2
Digital input signal delay			ms ≥50
Relay outputs			
Number of relay output			Nr. 3
Mechanical endurance			10 <sup>7</sup>
Electrical endurance			10 <sup>5</sup>
Insulations			
Supply			
Rated insulation voltage			VAC 250
Type of insulation			Double
Power frequency withstand voltage			kV 3

## Connections

Type of terminal	Screw		
Conductor cross section	AWG/Kcmil		
	min	AWG	Supply: 12AWG RA input: 20AWG
	Max	AWG	Supply: 8AWG RA input: 10AWG
	IEC		
	min	mm <sup>2</sup>	Supply: 2.5mm <sup>2</sup> RA input: 0.2mm <sup>2</sup>
	Max	mm <sup>2</sup>	Supply: 16mm <sup>2</sup> RA input: 6mm <sup>2</sup>
Tightening torque for terminals	max	Nm	0.5
	max	lbin	4.4

## Ambient conditions

Temperature	Operating temperature		
	min	°C	-25
	max	°C	+50
	Storage temperature		
	min	°C	-30
	max	°C	+80
Relative humidity		%	<80% (IEC/EN 60068-2-78)

## Housing

Execution	Wall mounting		
Material	ABS		
Degree of protection	IP40		
Dimensions (W x H x D)	mm	220 x 287 x 187	
Weight	g	2460g (without battery)	

## ETIM classification

ETIM 8.0	EC002685 - Central fire alarm control panel		
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