



Remote alarm panel with LCD display and buzzer, built-in RS485, for up to 3 fire pump controllers, expandable with EXP... modules FFLRA400

Product designation

Product type designation

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

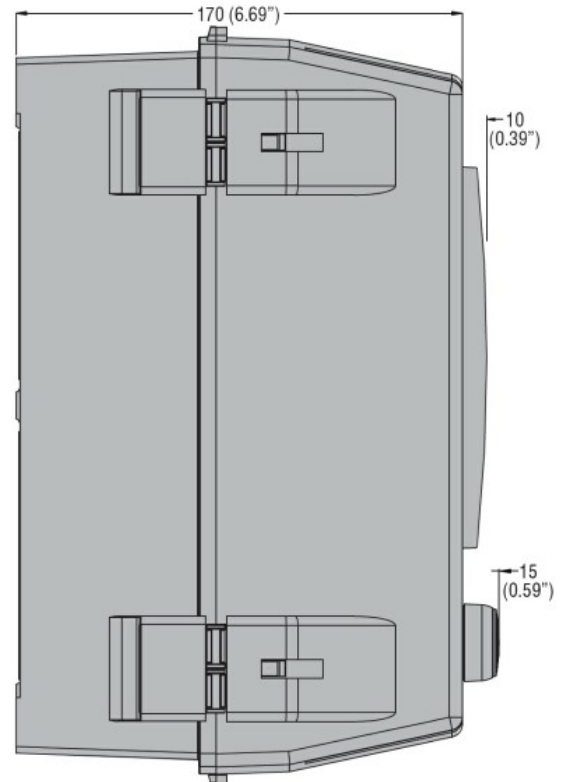
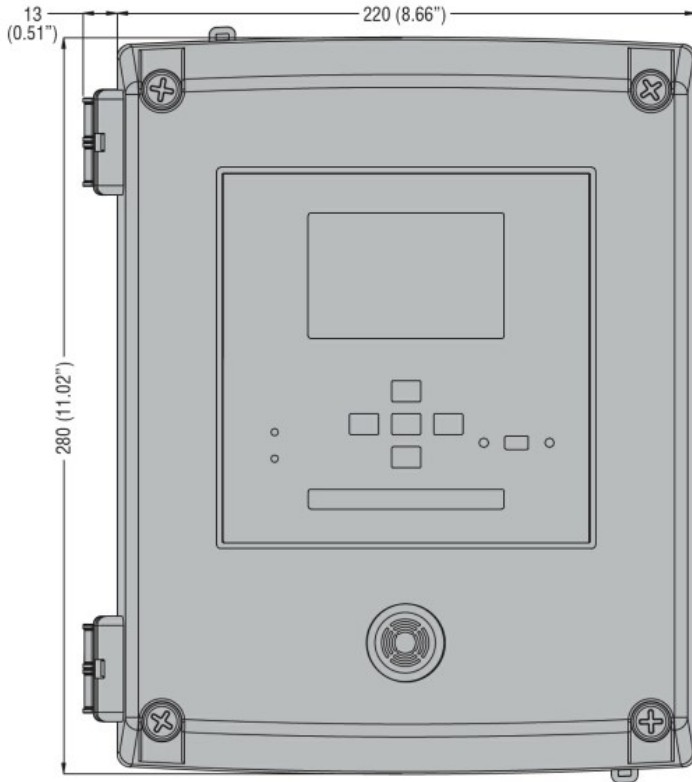
### Ambient conditions

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)

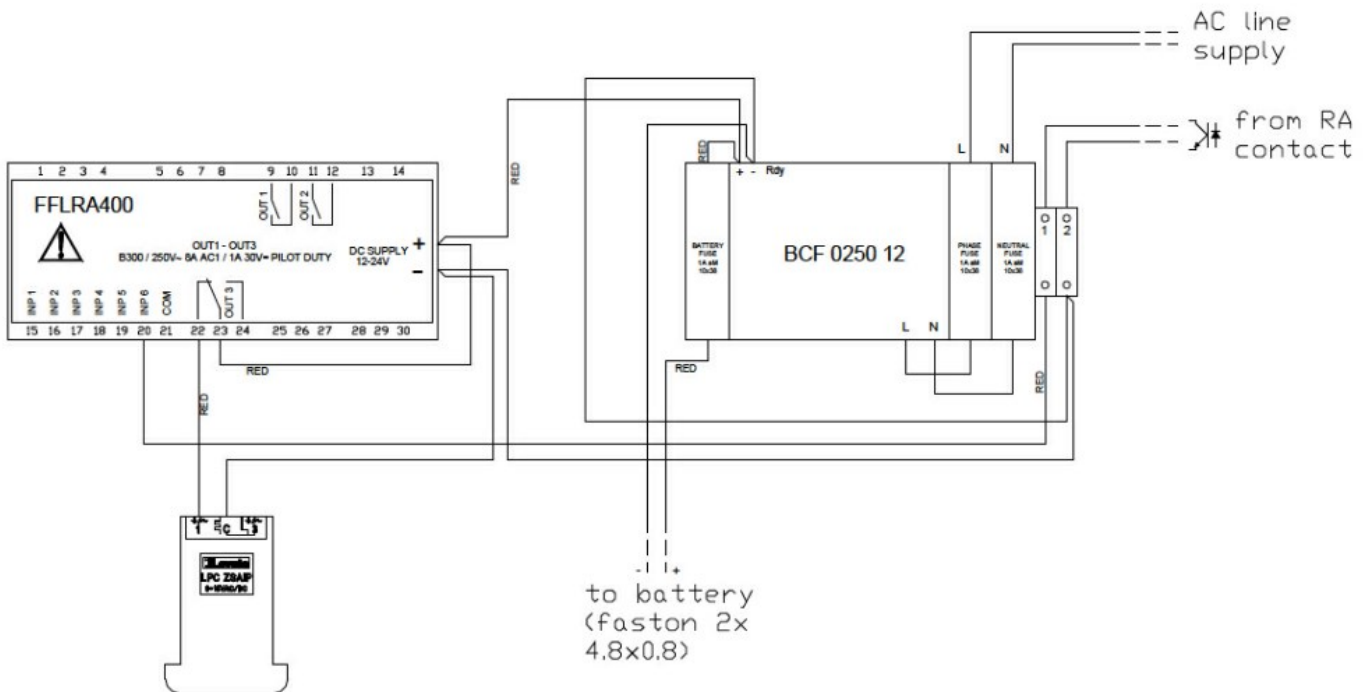
### Housing

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)

### Dimensions



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

- IEC/EN 61000-6-2
- IEC/EN 61000-6-3
- IEC/EN 61010-1
- IEC/EN 61010-2-030
- UNI EN 12845

**Certificates**

ETIM classification

ETIM 8.0

EC002685 -  
Central fire alarm  
control panel