

Redundancy Field Unit

LB9547-S70-0-0-1-0-M

- Standard enclosure for LB-System
- Max. 46 slots for I/O modules
- Installation in Zone 2 or safe area
- For MODBUS TCP/IP
- Redundancy (field bus and power supply)
- Electropolished enclosure, IP66/NEMA 4X
- Packaged certified solution

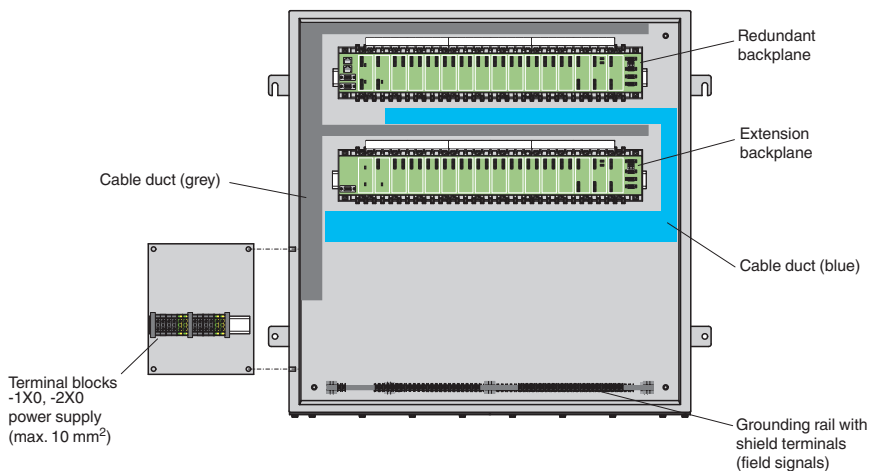
Redundancy Field Unit, Stainless Steel



Function

This field unit is designed to meet the requirements of the most demanding industrial environmental applications. Electropolished stainless steel 316L provides high corrosion and impact resistance at a very wide temperature range. The integrated rain channel prevents standing water from damaging the one-piece seal. It is equipped with plug-in slots for 23 dual width I/O modules or 46 single width I/O modules. Any I/O module can be inserted into any slot, enabling a mixture of I/O types in one field unit. The fieldbus and power supply are equipped with redundant connections.

Connection



Technical Data

General specifications

Installed components backplane LB9022E , backplane LB9024A

Slots

Bus coupler	2
Supply	6
I/O modules (single width)	max. 46
I/O modules (dual width)	max. 23

Supply

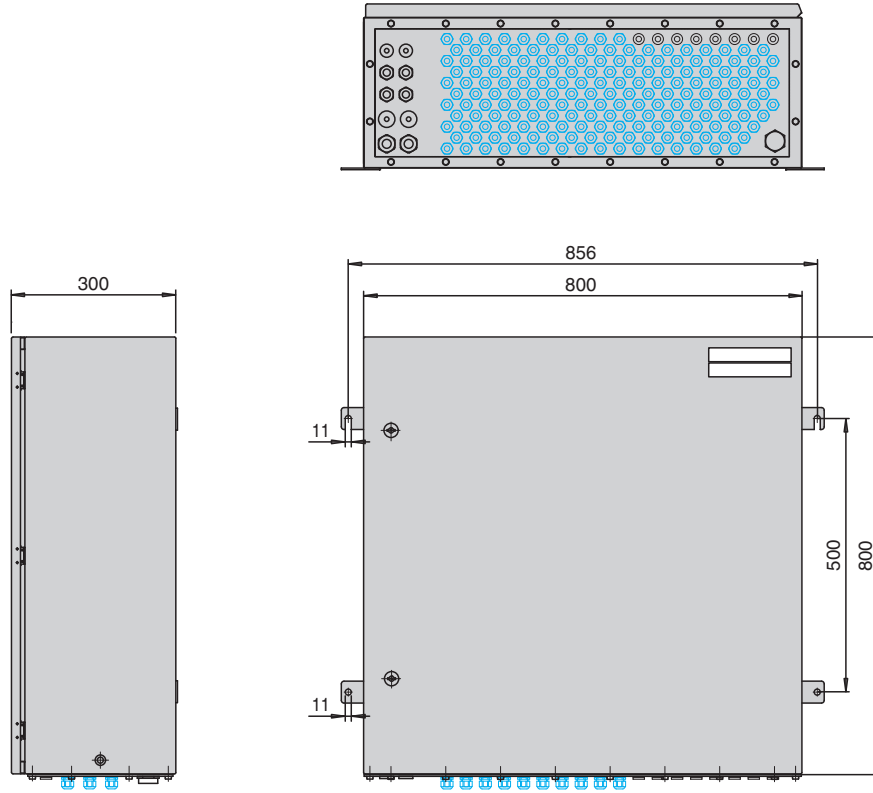
Connection	screw terminals, max. 10 mm²
Rated voltage	U_r 24 V DC
Maximum safe voltage U_m	60 V

Release date: 2020-04-30 Date of issue: 2020-04-30 Filename: 223630_eng.pdf

Technical Data

Redundancy	yes
Fieldbus interface	
Fieldbus type	MODBUS TCP
Connection	RJ-45 connector (not included with delivery)
Redundancy	yes
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1
Conformity	
Degree of protection	EN 60529
Impact resistance	EN 60079-0
Ambient conditions	
Ambient temperature	-20 ... 40 °C (-4 ... 104 °F)
Storage temperature	-25 ... 70 °C (-13 ... 158 °F)
Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	frequency range 10 ... 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Impact resistance	7J
Mechanical specifications	
Enclosure cover	hinged door with cam lock and double-bit insert
Degree of protection	IP66, NEMA 4X
Cable entry	power supply (Ex e): 2 x M25 (Ø8 ... Ø17 mm) and 2 x stopping plugs bus (Ex e): 6 x M20 (Ø5.5 ... Ø13 mm) field signals (Ex i): 184 x M16 (Ø5.5 ... Ø10 mm) and 8 x stopping plugs
Material	
Housing	stainless steel 1.4404 / AISI 316L
Surface	electropolished
Cable gland	Polyamide (PA)
Seal	Neoprene, fire-resistant, one piece
Material thickness	enclosure body: 1.2 mm enclosure cover: 1.5 mm mounting plate, gland plate: 3 mm
Mass	approx. 35 kg , without modules
Dimensions	(W x H x D) 800 x 800 x 300 mm (31.5 x 31.5 x 11.8 inch)
Mounting	thru-holes Ø11 mm
Grounding	grounding bolt M10 , brass
Data for application in connection with hazardous areas	
Certificate	PF 16 CERT 1267 X
Marking	Ⓜ II 3(1/2)G Ex e nA [ia Ga/ib Gb/ic] IIC T4 Gc Ⓜ II 3(1/2)D Ex tc [ia Da/ib Db/ic] IIIC T135 °C Dc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012 , EN 60079-15:2010 , EN 60079-31:2014
International approvals	
Marine approval	
Lloyd Register	15/20021
DNV GL Marine	TAA0000034
American Bureau of Shipping	T1450280/UN
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

Dimensions



Release date: 2020-04-30 Date of issue: 2020-04-30 Filename: 223630_eng.pdf