



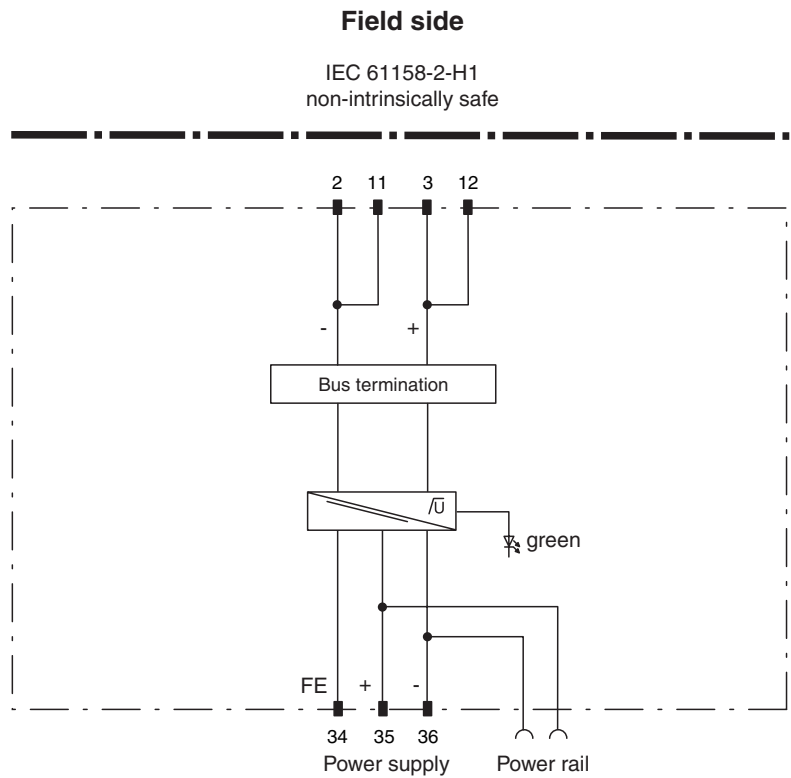
Power Supply

- Fieldbus power supply
- 400 mA supply for a complete bus segment
- Integrated bus termination
- Removable terminals and Power Rail connection for simple installation
- 24 V DC rated operational voltage

Function

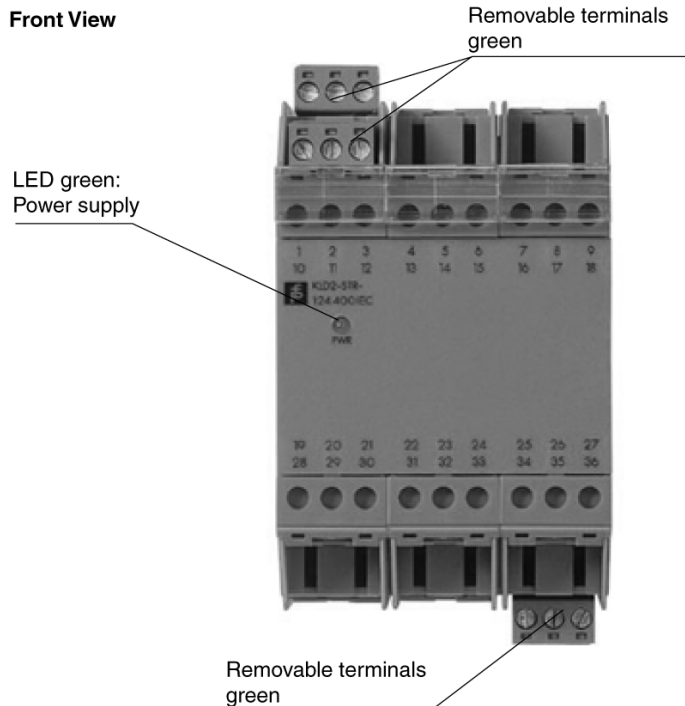
The KLD2-STR-1.24.400.IEC is a fieldbus power supply for fieldbus systems in accordance with IEC 61158-2/ISA-S50.02. It has a resistance adjustment network required for fieldbus applications and delivers a constant voltage to supply connected field devices independent of the load. The power supply is equipped with a bus termination on the field side. To facilitate simple installation, the device has removable terminals and power rail connections that eliminate the need for wiring and loops power supply lines.

Connection



Composition

Front View



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Supply	
Connection	Power Rail or terminals 35+, 36-
Rated voltage	20 ... 35 V DC
Ripple	≤ 10 %
Rated current	350 mA ... 735 mA
Fieldbus interface	
Field-side	
Connection	terminals 3, 12+; 2, 11-
Rated voltage	DC
Rated current	≤ 400 mA
Terminating impedance	100 Ω , integrated
Electrical isolation	
Field-side/Supply	function insulation acc. to DIN EN 50178, rated insulation voltage 50 V _{eff}
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EC	89/336 EWG
Standard conformity	
Electromagnetic compatibility	
	NAMUR NE 21, DIN EN 50081-2, DIN EN 50082-2
Protection degree	IEC/EN 60529
Fieldbus standard	IEC 61158-2, ISA S 50.02 part 2
Climatic conditions	DIN IEC 721
Ambient conditions	
Classification	3K3
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Storage temperature	-40 ... 85 °C (233 ... 358 K)
Relative humidity	< 75 %
Degree of soiling	max. 2, according to IEC 60664
Mechanical specifications	
Connection type	terminals
Core cross-section	up to 2.5 mm ²
Housing	60 mm x 115 mm x 107 mm
Protection degree	IP20
Mass	approx. 450 g
Data for application in conjunction with hazardous areas	
Supply	
Safety maximum voltage U _m	40 V DC

Accessories

Power Rail	PR 03	insert component for DIN rail in accordance with DIN EN 50022, standard length 500 mm
Power Rail	UPR03	insert component with no snap lock for the DIN rail in accordance with DIN EN 50022, Standard length 2 meters
The power supply component	KFD2-EB.D2A.B	provides power to the power rail redundantly with 24 V DC at a maximum current of 2 A, with pick-up
The component	KFD2-EB.R2A.B	provides power to the power rail with 24 V DC at a maximum current of 2 A, with pick-up. To set up a redundant system, a second device can be used.
The component	KFD2-EB2.B	provides power to the power rail with 24 V DC at a maximum current of 4 A, with pick-up and error message signal on the power rail.
Fieldbus termination	KMD0-FT-Ex Fx-FT-Ex1.I.IEC Fx-FT-Ex1.D.IEC	termination of the IEC line. The fieldbus terminating resistor is connection to the last IEC bus station.
Fieldbus repeater Entity	KLD2-PR-Ex1.IEC	isolator module and intrinsically safe power supply with repeater functionality for devices in accordance with the FISCO- / Entity model.
FISCO fieldbus repeater	KLD2-PR-Ex1.IEC1	isolator module and intrinsically safe power supply with repeater functionality for devices in accordance with the FISCO model.
Fieldbus repeater, non-intr. safe Fieldbus repeater,	KLD2-PR-1.IEC KLD2-PR-NI1.IEC	Non-intrinsically safe power supply with repeater function. Isolating power supply with repeater function for 'non incendive' Design for field circuits.
Fieldbus power pack	KLD2-STR-NI1....	'non incendive' Isolating power supply for 'non incendive' design of field circuits.

Dimensions

