Features

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- Output 15.3 V DC at 17 mA
- 3 logic inputs with AND/OR logic
- · Service port for isolator function test

Function

This isolated barrier is used for intrinsic safety applications. It supplies power to solenoids and other similar loads.

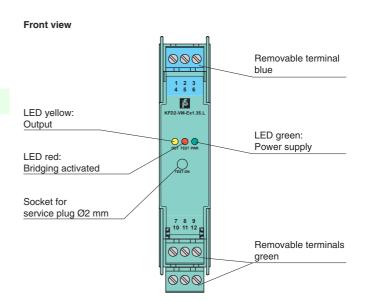
It is controlled by two "OR" and one "AND" configured logic input.

At full load, 15.3 V at 17 mA is available for the hazardous area load. The output signal has a resistive characteristic.

An override/test jack feature is available on the front plate of the device.

By engaging the service plug, the logic inputs are bypassed and the output is energized. The operation of this test feature is indicated by a red LED.

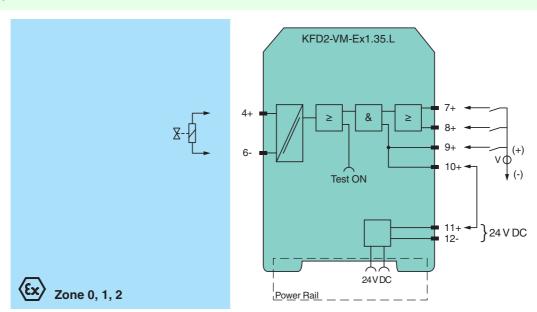
Assembly







Connection

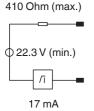


	Digital Output
	Digital Output
	Power Rail or terminals 11+, 12-
- 11	20 30 V DC
O _n	≤10 %
'n	≤ 52 mA
	typ. 1.2 W
	<1.5 W
	terminals 7+, 8+, 9+
	1-signal: 15 30 V DC; input current: approx. 2.3 mA at 24 V DC 0-signal: 0 5 V DC or open input
	5 30 ms (typical 10 ms)
R_i	≤ 410 Ω
	current I_E : ≥ 17 mA; typ. 18 mA voltage U_E : ≥ 15.3 V; typ. 16 V
U.	≥ 22.3 V
J _S	terminals 4+, 6-
t	17 mA
	These values are valid for the rated operating voltages from 20 30 V DC.
	These values are valid for the rated operating voltages from 20 30 V DC.
	15 Hz
	15 HZ
	not overlable
	not available
	TW 21222 / 2222
	EN 61326-1:2006
	NE 21
	IEC 60529
	-20 60 °C (-4 140 °F)
	IP20
	approx. 150 g
	20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1
ection	
ate	PTB 00 ATEX 2132, for additional certificates see www.pepperl-fuchs.com
	(x) II (1)GD [EEx ia] IIC [circuit(s) in zone 0/1/2]
	EEx ia IIC
U_{o}	25.2 V DC
	67.2 mA
	423.5 mW (linear characteristic)
U	
U	253 V AC/125 V DC without jumper 10-11, 60 V with jumper 10-11 (Attention! U _m is no rated voltage.)
	255 17.55, 125 1 55 mail out jumps: 15 11, 55 1 mar jumps: 15 11 (mismism of fit factor voltage.)
Ш	60 V (Attention! U _m is no rated voltage.)
O _m	oo v (micrition: om is no rated voltage.)
	eafo galvanic isolation and to EN 50020, voltage neek value 275 V
	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
	EN FOOM A EN FOOM
	EN 50014, EN 50020
	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-
	U _s



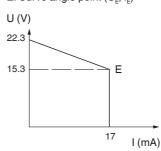
Output circuit diagramm

KFD2-VM-Ex1.35.L



Output characteristic for input voltage 20 V ... 30 V

E: Curve angle point (U_F, I_F)



Accessories

Power feed module KFD2-EB2

The power feed module is used to supply the devices with 24 V DC via the Power Rail. The fuse-protected power feed module can supply up to 100 individual devices depending on the power consumption of the devices. A galvanically isolated mechanical contact uses the Power Rail to transmit collective error messages.

Power Rail UPR-03

The Power Rail UPR-03 is a complete unit consisting of the electrical inset and an aluminium profile rail 35 mm x 15 mm. To make electrical contact, the devices are simply engaged.

Profile Rail K-DUCT with Power Rail

The profile rail K-DUCT is an aluminum profile rail with Power Rail insert and two integral cable ducts for system and field cables. Due to this assembly no additional cable guides are necessary.



Power Rail and Profile Rail must not be fed via the device terminals of the individual devices!