Features

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- Output 45 mA at 11.7 V DC
- · Logic input, non-polarized
- Up to SIL2 acc. to IEC 61508

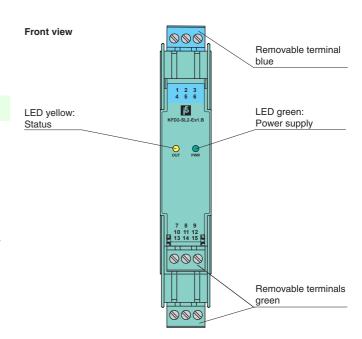
Function

This isolated barrier is used for intrinsic safety applications. It supplies power to solenoids, LEDs, and audible alarms.

It is controlled by means of a logic circuit. Voltage signals in a range of 16 V DC \dots 30 V DC are accepted as 1-signal. The 0-signal must be within a range of 0 V DC \dots 5 V DC. The current consumption of the logic inputs is about 3 mA each.

At full load, 11.7 V at 45 mA is available for the hazardous area load.

Assembly

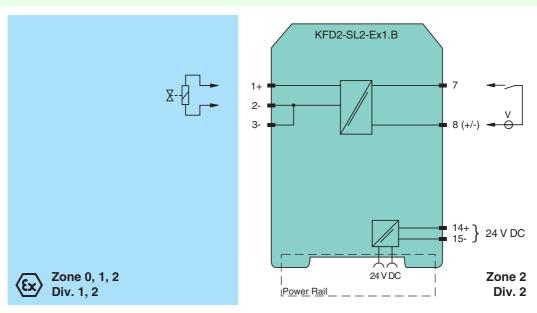






SIL2

Connection



Digital Output

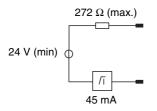
General specifications

Signal type

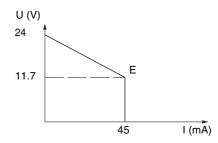
EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperlfuchs.com.

Output characteristic

Output circuit diagramm



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!