Features

- 1-channel isolated barrier
- 24 V DC supply (loop powered)
- Current limit 45 mA at 10 V DC
- Up to SIL3 acc. to IEC 61508

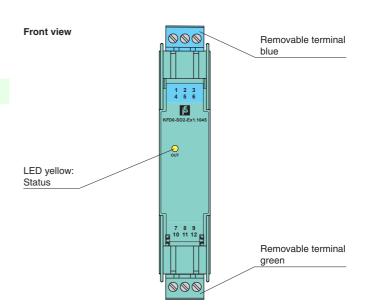
Function

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

It is loop powered, so the available energy at the output is received from the input signal. The output signal has a resistive characteristic. As a result the output voltage and current are dependent on the load and the input voltage.

At full load, 10 V at 45 mA is available for the hazardous area application.

Assembly

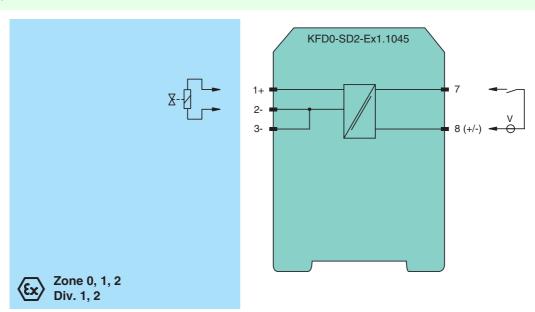






SIL3

Connection



Digital output

loop powered

terminals 7, 8 20 ... 35 V DC

 \leq 282 Ω

< 1.05 W (≤ 30 V)

Current I_E: ≥ 45 mA

72 mA at 20 V input voltage, load = 220 Ω 50 mA at 35 V input voltage, load = 220 Ω

General specifications

Signal type
Supply
Rated voltage

Power loss

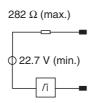
Rated voltage U_i Current

Input Connection

Output Internal resistor

Limit

Output circuit diagram



Output characteristic for input voltage 20 V ... 35 V

E: Curve angle point (U_E, I_E)

