### **Features**

- 1-channel isolated barrier
- 24 V DC supply (loop powered)
- Current input/output 4 mA ... 20 mA
- HART I/P or transmitter power supply
- · Low voltage drop
- Line fault detection (LFD)
- Up to SIL2 acc. to IEC 61508

## **Function**

This isolated barrier is used for intrinsic safety applications. It is loop powered and isolates a 4 mA ... 20 mA signal for transmitters and positioners and is HART compatible.

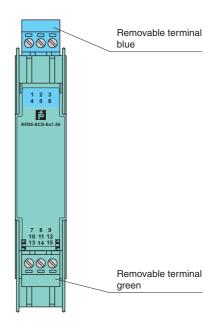
With a noticeably lower power loss compared to active isolator modules, the barriers 5 V drop makes it suitable for transmitter applications with unstable power sources between 20 V DC ... 30 V DC.

Line fault detection of the field circuit is possible if the control loop in the safe area is monitored for overscale or underscale conditions of the 4 mA ... 20 mA range.

The module can also be used for controlling solenoid valves and discrete outputs, such as LEDs. In this case, terminals 8-and 9+ are driven with a 24 V signal.

# **Assembly**

Front view

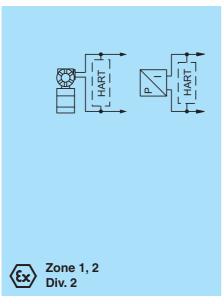


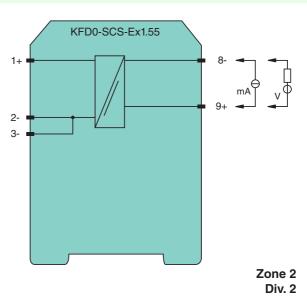
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SIL2

#### Connection





Analog output

**General specifications** 

Signal type

## **Additional information**

In addition, the voltage drop across the resistance (load) of the active measurement input must be considered when calculating the field voltage (terminals 1+ and 2-).

Lead breakage monitoring is possible by means of the reaction of the field current signal to the control side, which means the control system must monitor whether the 4 mA ... 20 mA range was exceeded or fallen short of.

SMART repeater supply isolator for **active** interfaces

Transmitters with or without HART

Voltage drop in case of 20 mA: max. 5 V

SMART repeater for **passive** interfaces

Transmitters with or without HART

Voltage drop in case of 20 mA: max. 5 V

Current driver for positioners, I/P converters Positioners with or without HART

Voltage drop in case of 20 mA:

5 V, 500  $\Omega$  ... 800  $\Omega$  load

6 V,  $250 \Omega load$  8 V,  $50 \Omega load$ 

