Features

- 1-channel isolated barrier
- 24 V DC supply (bus powered)
- Thermocouple, RTD or potentiometer
- Linearized output 4 mA ... 20 mA, sink/source or 1 V ... 5 V
- · Sensor breakage detection
- Configurable by **PACT**ware]TM
- · Line fault detection (LFD)

Function

This isolated barrier is used for intrinsic safety applications.

This device accepts thermocouples (TC), millivolts, potentiometers, or resistance temperature detectors (RTD) from a hazardous area and converts them to an isolated, linearized analog output in the safe area.

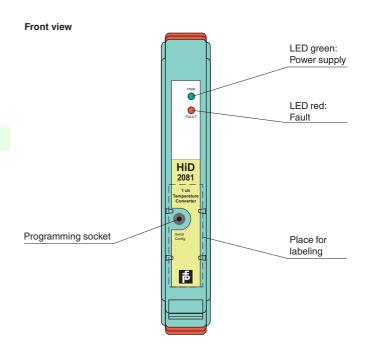
The outputs can be selected as a current source, current sink, or voltage source with DIP switches on the side panel.

Line fault detection of the field circuit is indicated by a red LED and an output on the fault bus. The fault conditions are monitored via a Fault Indication Board.

The device is easily configured by the use of the PACTware configuration software.

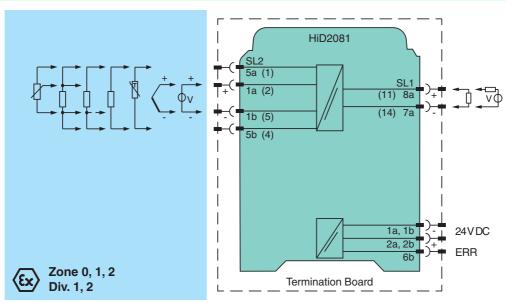
This device mounts on a HiD Termination Board.

Assembly





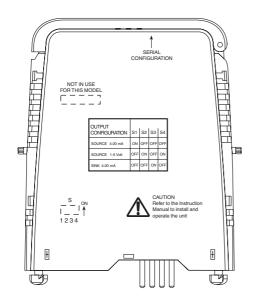
Connection



approx. 140 g

Dimensions		18 x 106 x 128 mm (0.7 x 4.2 x 5 in)		
Mounting		on Termination Board		
Coding		pin 2 and 4 trimmed For further information see system description.		
Data for application in connection with Ex-areas				
EC-Type Examination Certificate		CESI 02 ATEX 086, for additional certificates see www.pepperl-fuchs.com		
Group, category, type of protection		(x) II (1)GD [EEx ia] IIC [circuit(s) in zone 0/1/2]		
Input		EEx ia IIC		
Voltage	U_{o}	10 V		
Current	Io	15 mA		
Power	P_{o}	38 mW		
Analog outputs, power supply, collective error				
Maximum safe voltage	U_m	250 V (Attention! This is not the rated voltage.)		
Interface				
Maximum safe voltage	U_m	250 V (Attention! The rated voltage is lower.), RS 232		
Electrical isolation				
Input/Output		safe galvanic isolation acc. to EN 50020, voltage peak value 375 V		
Input/power supply		safe galvanic isolation acc. to EN 50020, voltage peak value 375 V		
Input/Programming input		safe galvanic isolation acc. to EN 50020, voltage peak value 375 V		
Directive conformity				
Directive 94/9/EC		EN 50014, EN 50020, EN 50284		
International approvals				
CSA approval				
Control drawing		366-005CS-12B (cCSAus)		
General information				
Supplementary information		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.		

Configuration



Switch position

	Function				
Switch	Source 4 mA 20 mA	Source 1 V 5 V	Sink 4 mA 20 mA		
S1	ON	OFF	OFF		
S2	OFF	ON	OFF		
S3	OFF	OFF	ON		
S4	OFF	ON	OFF		

Configure the device in the following way:

- Push the red Quick Lok Bars on each side of the device in the upper position.
- Remove the device from Termination Board.
- Set the DIP switches according to the figure.



The pins for this device are trimmed to polarize it according to its safety parameter. Do not change! For further information see system description.