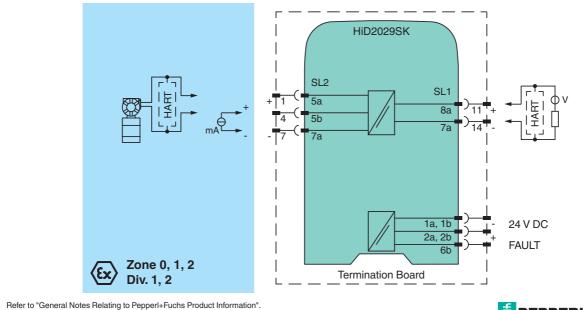


## Connection



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General specifications		
Signal type		Analog input
Functional safety related	parameters	
Safety Integrity Level (SIL)		SIL 2
Supply		
Connection		SL1: 1a(-), 1b(-); 2a(+), 2b(+)
Rated voltage	U <sub>r</sub>	20.4 30 V DC bus powered via Termination Board
Rated current	l <sub>r</sub>	40 mA at 24 V, 20 mA output
Power dissipation		1.05 W at 20 mA and 24 V external from PCS or PLC
Input		
Connection side		field side
Connection		SL2: 5a(+), 5b, 7a(-)
Input current		4 20 mA , current limit 26 mA
Input resistance		$40 \Omega$ , for current source
Ripple		10 mV <sub>eff</sub>
Voltage		min. 15.5 V at 20 mA
Communication		pass-through of HART signal to safe area
Communication		The current sink terminals 4 and 7 do not pass the HART signal to safe area.
Output		
Connection side		control side
Connection		SL1: 8a(+), 7a(-)
Output		sink mode from external supply
Output signal		4 20 mA , current limit 24 mA
Voltage		working voltage 7 30 V
Response time		70 ms , 10 90 % step change
Signal level		no fault: 1 mA 23.5 mA input current fault detection: < 0.2 mA or > 24 mA input current
Fault indication output		
Connection		SL1: 6b
Output type		open collector transistor
		fault bus signal
Transfer characteristics		
Calibrated accuracy		$< \pm 0.1$ % of full-scale value
Influence of temperature		< ± 0.01 %/ K
Frequency range		communication channel: 0.5 40 kHz within 3 db, (-6 db at 100 kHz), Tx to output and output to Tx, suitable for use with SMART transmitters using HART or similar protocol
Linearity		$< \pm 0.05$ % of full-scale value
Galvanic isolation		
Output/power supply		functional insulation acc. to DIN EN 50178, rated insulation voltage 50 $V_{eff}$
Indicators/settings		
Display elements		LEDs
Labeling		space for labeling at the front
Directive conformity		
Electromagnetic compatibili	tv	
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
Conformity		
Electromagnetic compatibili	ty	NE 21:2006 For further information see system description.
Degree of protection		IEC 60529
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
		5 90 %, non-condensing up to 35 °C (95 °F)
Relative humidity		5 30 /0, non-condensing up to 05 (35 F)
Mechanical specifications	,	IP20
Degree of protection		
Mass		approx. 140 g
Dimensions		18 x 106 x 128 mm (0.7 x 4.2 x 5 inch)
Mounting Coding		on Termination Board pin 1 and 3 trimmed
Data for application in co	nnection	For further information see system description.
with hazardous areas		
	icate	CESI 02 ATEX 086
EU-Type Examination Certif		
EU-Type Examination Certif Marking		🐼 II (1)G [Ex ia Ga] IIC , 🐼 II (1)D [Ex ia Da] IIIC
••		(☆) II (1)G [Ex ia Gaj IIC , ⟨∞⟩ II (1)D [Ex ia Daj IIIC] Ex ia, Ex iaD
Marking	U <sub>o</sub>	

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

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Power	Po	605 mW
Supply		
Maximum safe voltage	U <sub>m</sub>	250 V AC (Attention! U <sub>m</sub> is no rated voltage.)
Certificate		PF 11 CERT 2109 X
Marking		⟨ Ex⟩ II 3G Ex nA IIC T4 Gc [device in zone 2]
Galvanic isolation		
Input/Output		safe electrical isolation acc. to EN 60079-11: 2007, voltage peak value 375 V
Input/power supply		safe electrical isolation acc. to EN 60079-11: 2007, voltage peak value 375 V
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010
International approvals		
CSA approval		
Control drawing		366-005CS-12B (cCSAus)
IECEx approval		IECEx TUN 04.0012
Approved for		[Ex ia] IIC
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

## Configuration

No user configuration available for this device.



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

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