SIEMENS

Data sheet

6DL1134-6TB00-0HX1



SIMATIC ET 200SP HA, ET 200SP, analog ex-i HART input module, Ex-Al 2xl 2-Wire HART, suitable for BaseUnit type X1, channel diagnostics, 16bit, +/-0.3%

Figure similar

Product type designation	ir & Hills (C. II)	
Firmware version • FW update possible • FW update possible yes usable BaseJurits Product function • I&M data • Isochronous mode • Isochronous mode • STEP 7 TIA Portal configurable/integrated from version • PCS 7 configurable/integrated from version • PCS 6 ne can be configured/integrated from version • PCS 7 configurable/integrated from version • PCS 8 ne can be configured/integrated from version • PCS 7 configurable/integrated from version • PCS 8 ne can be configured/integrated from version • PCS 9 configurable/integrated from version • PCS 10 configurated from version V3.1 • PCS 10 configurated from version • V16 • V16 • V26 • V27 • V27	General information	
usable BaseUnits BU type X1 Product function I 8M data I 9 isochronous mode No Engineering with STEP 7 TIA Portal configurable/integrated from version PCS 7 configurable/integrated from version PCS ne can be configured/integrated from version PCS necession/CSD revision PCS NSI PVES Redundancy Redundancy capability No Citra Configuration in RUN Reparameterization possible in RUN PVES Input current Current consumption (rated value) PVES Input current Current consumption (rated value) PVES Encoder supply 24 V encoder supply PVES POWER loss, Typ. Address area Address space per module, max. POWER loss, PVES Address space per module with MART, max. Address space per module with MultiHART, max. Address space per module Address space per module with MultiHART, max. Addres	Product type designation	Ex-Al 2xl 2-wire HART
usable BaseUnits Product function RM data Yes; IRM0 to IRM3 Isochronous mode No Engineering with STEP 7 TIA Portal configurable/integrated from version V9.1 PCS 7 configurable/integrated from version V9.1 PCS 1 configured/integrated from version V9.1 PCS 1 configured/integrated from version V9.1 PROFINET from GSD version/GSD revision GSDML V2.35 Operating mode MSI Yes Redundancy Redundancy capability No CIR - Configuration in RUN Reparameterization possible in RUN Yes Input current	Firmware version	V1.0
Product function • I&M data • Isochronous mode Engineering with • STEP 7 TIA Portal configurable/integrated from version • PCS 7 configurable/integrated from version • PCS roe can be configurable/integrated from version • PCS roe can be configurable/integrated from version • PCS roe can be configurable/integrated from version • PROFINET from GSD version/GSD revision • PROFINET from GSD version/GSD revision Operating mode • MSI Redundancy • Redundancy capability • No CIR - Configuration in RUN Reparameterization possible in RUN Reparameterization possible in RUN Current consumption (rated value) - Va mA Current consumption, max. 92 mA; Peak load (all channels in short-circuit) Encoder supply 24 V encoder supply 24 V encoder supply • 24 V • Short-circuit protection • Short-circuit protection • Output current per channel, max. • Output current per channel, max. • Address space per module • Address space per module with HART, max. • Address space per module with MultiHART, max. • Mechanical coding element • Mechanical coding element	FW update possible	Yes
IskM data Ischronous mode Ischronous mode Ingineering with ISCHP 7 TIA Portal configurable/integrated from version PCS 7 configurable/integrated from version PCS 1 configurable/integrated from version PCS 1 configurable/integrated from version PCS Neo can be configured/integrated from version PCS Neo can be configured/integrated from version PCS New Yes Samuel V2.35 Operating mode MSI Yes Redundancy Redundancy Redundancy capability No CIR-Configuration in RUN Reparameterization possible in RUN Pyes Input current Current consumption (rated value) T4 mA Current consumption, max. 92 mA; Peak load (all channels in short-circuit) Encoder supply 4 V enooder supply Yes Short-circuit protection Yes; Electronic disconnection in case of short-circuit, current limitation from 27 mA Output current per channel, max. 28 mA Power loss Power loss, typ. 1.2 W Address space per module Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Parchaver configuration Automatic encoding Mechanical coding element Yes	usable BaseUnits	BU type X1
Inspire of the state of the st	Product function	
Engineering with STEP 7 TIA Portal configurable/integrated from version PCS 7 configurable/integrated from version PCS neo can be configured/integrated from version PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision SSDML V2.35 Operating mode MSI PREdundancy Redundancy Redundancy Redundancy Redundancy PROFINET from RUN Reparameterization possible in RUN Pres Current consumption (rated value) Pres Current consumption (rated value) Pres Current consumption, max. Pres Encoder supply Pat V encoder supply Pres Power loss, typ. Power loss, typ. Address space per module Address space per module Address space per module with HART, max. Address space per module with HART, max. Address space per module with MultiHART, max. Patronare conding Mechanical coding element Pres Ves	I&M data	Yes; I&M0 to I&M3
STEP 7 TIA Portal configurable/integrated from version PCS 7 configurable/integrated from version PCS no can be configured/integrated from version PCS no can be configured/integrated from version PCS no CSS version/CSD revision PROFINET from GSD version/CSD revision Operating mode MSI Pes Redundancy Redundancy Redundancy capability No CIR - Configuration in RUN Reparameterization possible in RUN Pes Input current Current consumption (rated value) Current consumption (rated value) PCURD operating in RUN 29 mA; Peak load (all channels in short-circuit) Encoder supply 24 V encoder supply 24 V Short-circuit protection Yes; Electronic disconnection in case of short-circuit, current limitation from 27 mA Output current per channel, max. Power loss, typ. Address space per module Address space per module with HART, max. Address space per module with HART, max. Address space per module with MultiHART, max. Automatic encoding Mechanical coding element Yes	Isochronous mode	No
PCS 7 configurable/integrated from version PCS neo can be configured/integrated from version PROFINET from GSD version/GSD revision Operating mode MSI Pes Redundancy Redundancy capability No Cir- Configuration in RUN Reparameterization possible in RUN Pes Input current Current consumption (rated value) 74 mA Current consumption, max. 92 mA; Peak load (all channels in short-circuit) Encoder supply 4 V encoder supply 24 V encoder supply 24 V encoder supply Output current per channel, max. 28 mA Power loss Power loss, typ. Address space per module Address space per module with MultiHART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Automatic encoding Mechanical coding element Yes Pose No Ves Pose Power losi Pose Power for QI information Pose Pose Power for QI information Pose Pose Pose Pose Pose for QI information Pose Pose Pose Pose Pose Pose Pose Pose	Engineering with	
PCS neo can be configured/integrated from version PROFINET from GSD version/GSD revision Operating mode MSI Redundancy PREdundancy Redundancy capability No CIR - Configuration in RUN Reparameterization possible in RUN Pyes Current consumption (rated value) Current consumption, max. Panagement of the consumption of the consumptio	 STEP 7 TIA Portal configurable/integrated from version 	V16
PROFINET from GSD version/GSD revision Operating mode MSI Redundancy Redundancy capability No CIR - Configuration in RUN Reparameterization possible in RUN Reparameterization possible in RUN Turrent consumption (rated value) Address space per module Address space per module with HART, max. Automatic encoding Automatic encoding MSI Yes Yes Yes Yes Yes Yes Yes Ye	 PCS 7 configurable/integrated from version 	V9.1
Operating mode MSI Redundancy Redundancy capability No CIR - Configuration in RUN Reparameterization possible in RUN Input current Current consumption (rated value) Current consumption, max. 92 mA; Peak load (all channels in short-circuit) Encoder supply 24 V encoder supply 24 V Short-circuit protection Output current per channel, max. Power loss Power loss Power loss, typ. Address space per module Address space per module, max. Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Automatic encoding Mechanical coding element Yes No No Aves	 PCS neo can be configured/integrated from version 	V3.1
MSI Yes Redundancy Redundancy capability No CiR - Configuration in RUN Reparameterization possible in RUN Input current Current consumption (rated value) Current consumption, max. Pencoder supply 24 V encoder supply 24 V Short-circuit protection No Output current per channel, max. Power loss Power loss Power loss Power loss, typ. Address space per module Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Automatic encoding Mechanical coding element Yes No CiR - Configuration No Aves Power losa Automatic encoding Mechanical coding element Yes No No Aves Power losa Aves	PROFINET from GSD version/GSD revision	GSDML V2.35
Redundancy Redundancy capability No CIR - Configuration in RUN Reparameterization possible in RUN Pes Input current Current consumption (rated value) Current consumption, max. Encoder supply 24 V encoder supply 24 V encoder supply • 24 V • Short-circuit protection • Output current per channel, max. Power loss Power loss, typ. Address space per module • Address space per module with HART, max. • Address space per module with MultiHART, max. Automatic encoding • Mechanical coding element Yes	Operating mode	
Redundancy capability CiR - Configuration in RUN Reparameterization possible in RUN Input current Current consumption (rated value) Current consumption, max. Proceeder supply 24 V encoder supply 24 V yes Short-circuit protection Cutrent per channel, max. Power loss Power loss, typ. Address space per module Address space per module with HART, max. Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Automatic encoding Mechanical coding element Yes Yes Yes Address space per module yes Automatic encoding Mechanical coding element Yes Yes Yes Yes Address space per module yes Automatic encoding Mechanical coding element Yes	• MSI	Yes
CiR - Configuration in RUN Reparameterization possible in RUN Input current Current consumption (rated value) Current consumption, max. 92 mA; Peak load (all channels in short-circuit) Encoder supply 24 V encoder supply • 24 V • Short-circuit protection • Short-circuit protection • Output current per channel, max. Power loss Power loss, typ. 1.2 W Address area Address space per module • Address space per module with HART, max. • Address space per module with HART, max. • Address space per module with MultiHART, max.	Redundancy	
Reparameterization possible in RUN Input current Current consumption (rated value) Current consumption, max. Power loss Power loss, typ. Address space per module Address space per module, max. Address space per module with HART, max. Address space per module with MultiHART, max. Automatic encoding Automatic encoding Ma 74 mA 74 mA 74 mA 75 mA 75 mA 76 mA 78 Seak load (all channels in short-circuit) 78 mA 79 mA 7	 Redundancy capability 	No
Current consumption (rated value) Current consumption, max. Paragraphy 24 V encoder supply 24 V encoder supply • 24 V • Short-circuit protection • Output current per channel, max. Power loss Power loss, typ. Address space per module • Address space per module, max. • Address space per module with HART, max. • Address space per module with HART, max. • Address space per module with MultiHART, max. • Address space per module with MultiHART, max. • Address configuration Automatic encoding • Mechanical coding element 74 mA 92 mA; Peak load (all channels in short-circuit) Yes Yes Peak load (all channels in short-circuit) ** ** ** ** ** ** ** ** **	CiR - Configuration in RUN	
Current consumption (rated value) Current consumption, max. Proceder supply 24 V encoder supply 24 V Short-circuit protection Cutrent per channel, max. Cutrent per channel, max. Power loss Power loss, typ. Address space per module Address space per module, max. Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Address configuration Automatic encoding Mechanical coding element Yes	Reparameterization possible in RUN	Yes
Current consumption, max. Power loss Power loss, typ. Address space per module Address space per module Address space per module with HART, max. Address space per module with MultiHART, wax.	Input current	
Encoder supply 24 V encoder supply • 24 V • Short-circuit protection • Output current per channel, max. Power loss Power loss, typ. Address area Address space per module • Address space per module with HART, max. • Address space per module with MultiHART, max.	Current consumption (rated value)	74 mA
24 V encoder supply • 24 V • Short-circuit protection • Output current per channel, max. Power loss Power loss, typ. Address area Address space per module • Address space per module with HART, max. • Address space per module with MultiHART, max. Automatic encoding • Mechanical coding element Yes	Current consumption, max.	92 mA; Peak load (all channels in short-circuit)
Yes Short-circuit protection Yes; Electronic disconnection in case of short-circuit, current limitation from 27 mA Output current per channel, max. Power loss Power loss, typ. Address area Address space per module Address space per module, max. Address space per module with HART, max. Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max.	Encoder supply	
Short-circuit protection Yes; Electronic disconnection in case of short-circuit, current limitation from 27 mA Output current per channel, max. 28 mA Power loss Power loss, typ. 1.2 W Address area Address space per module Address space per module, max. Address space per module with HART, max. Address space per module with MultiHART, max. Yes	24 V encoder supply	
Output current per channel, max. 28 mA Power loss Power loss, typ. 1.2 W Address area Address space per module • Address space per module, max. • Address space per module with HART, max. • Address space per module with MultiHART, max. 11 byte; + 0/1 byte for QI information Hardware configuration Automatic encoding • Mechanical coding element Yes	• 24 V	Yes
Power loss Power loss, typ. Address area Address space per module • Address space per module, max. • Address space per module with HART, max. • Address space per module with MultiHART, max. • Address space per module with MultiHART, max. • Address space per module with MultiHART, max. 11 byte; + 0/1 byte for QI information Hardware configuration Automatic encoding • Mechanical coding element Yes	Short-circuit protection	
Power loss, typ. Address area Address space per module • Address space per module, max. • Address space per module with HART, max. • Address space per module with MultiHART, max. • Address space per module with MultiHART, max. • Address space per module with MultiHART, max. 11 byte; + 0/1 byte for QI information Hardware configuration Automatic encoding • Mechanical coding element Yes	 Output current per channel, max. 	28 mA
Address space per module Address space per module, max. Address space per module, max. Address space per module with HART, max. Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with HART, max. Address space per module with HART, max. Address space per module with HART, max. Address space per module with MultiHART, max. Address	Power loss	
Address space per module Address space per module, max. Address space per module with HART, max. Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. 11 byte; + 0/1 byte for QI information Hardware configuration Automatic encoding Mechanical coding element Yes	Power loss, typ.	1.2 W
 Address space per module, max. Address space per module with HART, max. Address space per module with MultiHART, max. Address space per module with MultiHART, max. Hardware configuration Automatic encoding Mechanical coding element Yes 	Address area	
 Address space per module with HART, max. Address space per module with MultiHART, max. Hardware configuration Automatic encoding Mechanical coding element Yes 	Address space per module	
 Address space per module with MultiHART, max. Hardware configuration Automatic encoding Mechanical coding element Yes 	 Address space per module, max. 	4 byte; + 0/1 byte for QI information
Hardware configuration Automatic encoding • Mechanical coding element Yes	 Address space per module with HART, max. 	24 byte; + 0/1 byte for QI information
Automatic encoding • Mechanical coding element Yes	 Address space per module with MultiHART, max. 	11 byte; + 0/1 byte for QI information
Mechanical coding element Yes	Hardware configuration	
· · · · · · · · · · · · · · · · · · ·	Automatic encoding	
Selection of BaseUnit for connection variants	Mechanical coding element	Yes
	Selection of BaseUnit for connection variants	

Analog inputs Number of analog inputs For current measurement Cycle time (all channels), min. Input ranges (rated values), currents 10 to 20 mA 14 mA to 20 mA 15 m max. 16 shielded, max. 17 unshielded, max. 18 unshielded, max. 19 shielded, max. 19 shielded, max. 10 unshielded, max. 10 m; Ex characteristic values must be observed one integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Integration time, parameterizable Interference voltage suppression for interference frequency ff in Hz Smoothing of measured values Number of smoothing levels 10 / 50 / 60 Hz Fescolution of signal encoders 10 for current measurement as 2-wire transducer Yes
Number of analog inputs For current measurement Cycle time (all channels), min. Input ranges (rated values), currents 10 to 20 mA 14 mA to 20 mA 15 mInput resistance (4 mA to 20 mA) 16 shielded, max. 17 shielded, max. 18 shielded, max. 19 unshielded, max. 19 unshielded, max. 10 unshielded, max. 10 unshielded, max. 10 unshielded, max. 10 the inputs Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders
For current measurement Cycle time (all channels), min. Input ranges (rated values), currents 10 to 20 mA 14 mA to 20 mA 15 multiput resistance (4 mA to 20 mA) Cable length 15 shielded, max. 15 unshielded, max. 20 unshielded, max. 20 unshielded, max. 300 m; Ex characteristic values must be observed and one integrating (Sigma-Delta) Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels Parameterizable Number of smoothing levels Parameterizable Number of smoothing levels Parameterizable Encoder Connection of signal encoders
Cycle time (all channels), min. Input ranges (rated values), currents • 0 to 20 mA • 4 mA to 20 mA — Input resistance (4 mA to 20 mA) • shielded, max. • unshielded, max. Analog value generation for the inputs Measurement principle Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values • Number of smoothing levels • parameterizable Connection of signal encoders
Input ranges (rated values), currents • 0 to 20 mA • 4 mA to 20 mA — Input resistance (4 mA to 20 mA) Shielded, max. • unshielded, max. • unshielded, max. Measurement principle Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Integration of measured values • Number of smoothing levels • parameterizable • Rencoder Connection of signal encoders
• 0 to 20 mA • 4 mA to 20 mA — Input resistance (4 mA to 20 mA) Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. Integration for the inputs Measurement principle Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values • Number of smoothing levels • parameterizable Encoder Connection of signal encoders
 4 mA to 20 mA — Input resistance (4 mA to 20 mA) Cable length shielded, max. unshielded, max. unshielded, max. Analog value generation for the inputs Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels parameterizable Yes Encoder Connection of signal encoders
-— Input resistance (4 mA to 20 mA) Cable length • shielded, max. • unshielded, max. • unshielded, max. Analog value generation for the inputs Measurement principle Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values • Number of smoothing levels • parameterizable • Parameterizable • Number of signal encoders
Cable length • shielded, max. • unshielded, max. Analog value generation for the inputs Measurement principle Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values • Number of smoothing levels • parameterizable • Number of signal encoders Encoder Connection of signal encoders
shielded, max. unshielded, max. unshielded, max. Analog value generation for the inputs Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels parameterizable Number of signal encoders 100 m; Ex characteristic values must be observed 300 m; Ex characteristic values must be observed 10 because must be observed 10 because must because must because must be observed must because must be observed must
unshielded, max. Analog value generation for the inputs Measurement principle integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Yes; channel by channel Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels parameterizable Yes A; None; 4/8/16 times parameterizable Yes Encoder Connection of signal encoders
Analog value generation for the inputs Measurement principle integrating (Sigma-Delta) Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable Yes; channel by channel • Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values • Number of smoothing levels • parameterizable Yes Encoder Connection of signal encoders
Measurement principle integrating (Sigma-Delta) Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable Yes; channel by channel • Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values • Number of smoothing levels • parameterizable Encoder Connection of signal encoders
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders
Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders
Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels parameterizable Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Yes, channel by channel 10 / 50 / 60 Hz 4; None; 4/8/16 times Percoder Connection of signal encoders
 Interference voltage suppression for interference frequency f1 in Hz Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders
frequency f1 in Hz Smoothing of measured values • Number of smoothing levels • parameterizable Encoder Connection of signal encoders
Smoothing of measured values • Number of smoothing levels • parameterizable Encoder Connection of signal encoders
 Number of smoothing levels parameterizable Encoder Connection of signal encoders
• parameterizable Yes Encoder Connection of signal encoders
Encoder Connection of signal encoders
Connection of signal encoders
·
Tor current measurement as 2-wire transducer Yes
— Burden of 2-wire transmitter, max. 750 Ω; At 20 mA input current
Errors/accuracies
Linearity error (relative to input range), (+/-) 0.01 %
Temperature error (relative to input range), (+/-) 0.005 %/K
Crosstalk between the inputs, min. 60 dB
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)
Operational error limit in overall temperature range
• Current, relative to input range, (+/-) 0.3 %
Basic error limit (operational limit at 25 °C)
• Current, relative to input range, (+/-) 0.2 %
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency
 Series mode interference (peak value of interference < 60 dB rated value of input range), min.
Protocols
HART protocol Yes
Interrupts/diagnostics/status information
Diagnostics function Yes
Alarms
Diagnostic alarm Yes
Limit value alarm Yes
Diagnoses
Monitoring the supply voltage Yes
Wire-break Yes; channel by channel
• Short-circuit Yes; channel by channel
• Group error Yes
Overflow/underflow Yes; channel by channel
Overnow/undernow Piagnostics indication LED
·
Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED Yes; green PWR LED Yes; green PWR LED
Channel status display Yes; green LED Yes; green LED
• for channel diagnostics Yes; red LED
for module diagnostics Yes; green/red DIAG LED
Ex(i) characteristics
maximum values for connecting terminals for gas group IIC
• Uo (no-load voltage), max. 26 V

 lo (short-circuit current), max. 	93 mA
 Po (power output), max. 	605 mW
 Co (permissible external capacity), max. 	99 nF
 Lo (permissible external inductivity), max. 	4 mH
 Ui (intrinsically safe input voltage), max. 	10 V
 Um (voltage at non-intrinsically safe connecting terminals), max. 	60 V
Potential separation	
Potential separation channels	
between the channels	No
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	Yes; Electrical isolation between the channels and input voltage PME
Isolation	
Isolation tested with	further information on insulation can be found in the "ET 200SP HA / ET 200SP modules for devices in hazardous areas" System Manual
insulation of the field circuits to local ground acc. to IEC/EN 60079-11 tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-40 °C
 horizontal installation, max. 	70 °C
vertical installation, min.	-40 °C
vertical installation, max.	60 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	55 g

last modified: 4/25/2024 🖸