SIEMENS

Data sheet

6ES7143-6BH00-0BB0



SIMATIC ET 200eco PN, DIQ 16x 24 V DC/0.5 A/2 A, M12-L, 8x M12, double assignment, input type 3 (IEC 61131), sink input (PNP, sinking input), input delay 0.05..20 ms, source output (PNP,switching to P potential), substitute value output, channel diagnostics for: wire break at input, encoder power supply short-circuit, short-circuit at output, prioritized startup, MSI, MSO, MRP, S2 redundancy, I&M0...3, multi-fieldbus, PN IO, Ethernet IP, Modbus TCP, degree of protection IP67 / IP69K

General information		
HW functional status	FS01	
Firmware version	V5.1.x	
FW update possible	Yes	
Vendor identification (VendorID)	002AH	
Device identifier (DeviceID)	0306H	
Manufacturer ID according to ODVA (VendorID)	04E3H	
Device ID according to ODVA (Product code)	0FA8H	
Product function		
• I&M data	Yes; I&M0 to I&M3	
 Isochronous mode 	No	
Prioritized startup	Yes	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	STEP 7 V17 or higher with HSP 0363	
 PROFINET from GSD version/GSD revision 	GSDML V2.3.x	
 Multi Fieldbus Configuration Tool (MFCT) 	from V1.3 SP1	
Operating mode		
• DI	Yes	
Counter	No	
• DQ	Yes	
• MSI	Yes	
• MSO	Yes	
Supply voltage		
power supply according to NEC Class 2 required	No	
Load voltage 1L+		
 Rated value (DC) 	24 V	
 permissible range, lower limit (DC) 	20.4 V	
 permissible range, upper limit (DC) 	28.8 V	
Reverse polarity protection	Yes; Against destruction; encoder power supply outputs applied with reversed polarity, loads pick up	
Load voltage 2L+		
 Rated value (DC) 	24 V	
 permissible range, lower limit (DC) 	20.4 V	
 permissible range, upper limit (DC) 	28.8 V	
 Reverse polarity protection 	Yes; against destruction	
Input current		
Current consumption (rated value)	90 mA; without load	
from load voltage 1L+ (unswitched voltage)	12 A; Maximum value	
from load voltage 2L+, max.	12 A; Maximum value	
Encoder supply		

24 V encoder supply	
Short-circuit protection	Yes; Group-by-group for 2 channels, electronic
Snort-circuit protection Output current, max.	100 mA; per output
Power loss	100 mz, per output
Power loss Power loss, typ.	9.7 W
Address area	9.7 W
Address space per module	2 byte; + 4 bytes for QI information
InputsOutputs	2 byte
Hardware configuration	2 Dyle
Submodules	
Number of configurable submodules, max.	2
Digital inputs	
Number of digital inputs	16; Parameterizable as DIQ
• in groups of	8
Digital inputs, parameterizable	Yes
Source/sink input	P-reading
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 60 °C, max.	16
Input voltage	
Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+11 to +30V
Input current	
• for signal "1", typ.	2.4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.05 / 0.1 / 0.4 / 0.8 / 1.6 / 3.2 / 12.8 / 20 ms
Cable length	
• unshielded, max.	30 m
Digital outputs	
Number of digital outputs	16; Parameterizable as DIQ
Number of digital outputs	8; 2 load groups for 8 outputs each
Number of digital outputs • in groups of Current-sourcing	8; 2 load groups for 8 outputs each Yes
Number of digital outputs ● in groups of Current-sourcing Short-circuit protection	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V)
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A / 2 A
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range • lower limit	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range • lower limit • upper limit	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A / 2 A
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range • lower limit • upper limit Output voltage	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A : 5 W / 2 A 10 W
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range • lower limit • upper limit Output voltage • for signal "1", min.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range • lower limit • upper limit Output voltage • for signal "1", min. Output current	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V)
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range • lower limit • upper limit Output voltage • for signal "1", min. Output current • for signal "1" rated value	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V)
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range • lower limit • upper limit Output voltage • for signal "1", min. Output current • for signal "1" permissible range, max.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V)
Number of digital outputs in groups of Current-sourcing Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs with resistive load, max. with inductive load, max. on lamp load, max. load resistance range lower limit upper limit Output voltage for signal "1", min. Output current for signal "1" rated value for signal "1" residual current, max.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V)
Number of digital outputs in groups of Current-sourcing Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs with resistive load, max. with inductive load, max. on lamp load, max. load resistance range lower limit upper limit Output voltage for signal "1", min. Output current for signal "1" rated value for signal "1" residual current, max. Output delay with resistive load	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V) 0.5 A / 2 A 0.5 A / 2 A 0.5 A / 2 A
Number of digital outputs in groups of Current-sourcing Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs with resistive load, max. with inductive load, max. on lamp load, max. load resistance range lower limit upper limit Output voltage for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range, max. for signal "0" residual current, max. Output delay with resistive load "0" to "1", max.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V) 0.5 A / 2 A
Number of digital outputs in groups of Current-sourcing Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs with resistive load, max. with inductive load, max. on lamp load, max. load resistance range lower limit upper limit Output voltage for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range, max. for signal "0" residual current, max. Output delay with resistive load "0" to "1", max. "1" to "0", max.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V) 0.5 A / 2 A 0.5 A / 2 A 0.5 A / 2 A
Number of digital outputs • in groups of Current-sourcing Short-circuit protection • Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • with inductive load, max. • on lamp load, max. Load resistance range • lower limit • upper limit Output voltage • for signal "1", min. Output current • for signal "1" rated value • for signal "1" permissible range, max. • for signal "0" residual current, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Parallel switching of two outputs	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V) 0.5 A / 2 A
Number of digital outputs in groups of Current-sourcing Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs with resistive load, max. with inductive load, max. on lamp load, max. load resistance range lower limit upper limit Output voltage for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range, max. for signal "0" residual current, max. Output delay with resistive load "0" to "1", max. "1" to "0", max.	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V) 0.5 A / 2 A 0.1 mA
Number of digital outputs in groups of Current-sourcing Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs with resistive load, max. with inductive load, max. on lamp load, max. load resistance range lower limit upper limit Output voltage for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range, max. for signal "0" residual current, max. Output delay with resistive load "0" to "1", max. "1" to "0", max. Parallel switching of two outputs for output sourcesting in groups and in the source of the	8; 2 load groups for 8 outputs each Yes Yes; per channel, electronic 0.5 A: 1 A / 2 A: 3 A 0.5 A: Type 1L+ (-70 V) / 2 A: Type (-18 V) Yes 0.5 A / 2 A 0.5 A / 2 A 0.5 A: 5 W / 2 A 10 W 0.5 A: 48 ohms / 2 A: 12 ohms 4 kΩ 1L+ (-0.8 V) / 2L+ (-0.8 V) 0.5 A / 2 A 0.1 mA

 with resistive load, max. 	0.5 A: 100 Hz / 2 A: 40 Hz
with inductive load, max.	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs	
 Current per group, max. 	1L+: 2 A / 2L+: 6 A
Current per module, max.	8 A
Cable length	
• unshielded, max.	30 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interfaces	
Number of PROFINET interfaces	1
1. Interface	
Interface type	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
Interface types	
M12 port	Yes; 2x M12, 4-pin, D-coded
 Number of ports 	2
integrated switch	Yes
Protocols	
PROFINET IO Device	Yes
Open IE communication	Yes
Interface types	
M12 port	
 Autonegotiation 	Yes
 Autocrossing 	Yes
Transmission rate, max.	100 Mbit/s
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
EtherNet/IP	Yes
Modbus TCP	Yes
PROFINET IO Device	
Services	
— IRT	Yes; 250 µs to 4 ms in 125 µs frame
 Prioritized startup 	Yes
— Shared device	Yes
 Number of IO Controllers with shared device, max. 	2
Redundancy mode	
 PROFINET system redundancy (S2) 	Yes
— on S7-1500R/H	Yes
— on S7-400H	Yes
 PROFINET system redundancy (R1) 	No
H-Sync forwarding	Yes
Media redundancy	
— MRP	Yes
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EtherNet/IP	
EtherNet/IP Services	
	Yes
Services	
Services — CIP Implicit Messaging	Yes
Services — CIP Implicit Messaging — CIP Explicit Messaging	Yes Yes
Services — CIP Implicit Messaging — CIP Explicit Messaging — CIP Safety	Yes Yes No
Services — CIP Implicit Messaging — CIP Explicit Messaging — CIP Safety — Shared device	Yes Yes No Yes; 2x EtherNet/IP Scanner
Services — CIP Implicit Messaging — CIP Explicit Messaging — CIP Safety — Shared device — Number of scanners with shared device, max.	Yes Yes No Yes; 2x EtherNet/IP Scanner
Services — CIP Implicit Messaging — CIP Explicit Messaging — CIP Safety — Shared device — Number of scanners with shared device, max. Updating times	Yes Yes No Yes; 2x EtherNet/IP Scanner
Services — CIP Implicit Messaging — CIP Explicit Messaging — CIP Safety — Shared device — Number of scanners with shared device, max. Updating times — Requested Packet Interval (RPI)	Yes Yes No Yes; 2x EtherNet/IP Scanner 2
Services — CIP Implicit Messaging — CIP Explicit Messaging — CIP Safety — Shared device — Number of scanners with shared device, max. Updating times — Requested Packet Interval (RPI) Redundancy mode	Yes Yes No Yes; 2x EtherNet/IP Scanner 2
Services — CIP Implicit Messaging — CIP Explicit Messaging — CIP Safety — Shared device — Number of scanners with shared device, max. Updating times — Requested Packet Interval (RPI) Redundancy mode — DLR (Device Level Ring)	Yes Yes No Yes; 2x EtherNet/IP Scanner 2

Large Forward Open (Class 2)	No
— LargeForwardOpen (Class3)	INU
Modbus TCP	
Services	
— read coils (code=1)	Yes
— read discrete inputs (code=2)	Yes
— Read Holding Registers (Code=3)	Yes
— write single coil (code=5)	Yes
— write multiple coils (code=15)	Yes
— Write Multiple Registers (Code=16)	Yes
 Parameter change by master 	No
Modbus TCP Security Protocol	No
Address space per station	
 Address space per station, max. 	20 byte
Access-consistent address space	2 byte
Updating time	
— I/O request interval	2 ms
Connections	
Number of connections per slave	12
Open IE communication	
• TCP/IP	Yes; (only EtherNet/IP or Modbus TCP)
• SNMP	Yes
• LLDP	Yes
• ARP	Yes
Interrupts/diagnostics/status information	<u> </u>
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes; Parameterizable
Maintenance interrupt	Yes; Parameterizable
Hardware interrupt	Yes; Parameterizable
Diagnoses	
 Diagnostic information readable 	Yes
 Monitoring the supply voltage 	Yes
— parameterizable	Yes
Wire-break	Yes; DI, input current < 0.3 mA, per channel
Short-circuit	Yes; Outputs to M and P; channel by channel
 Short-circuit encoder supply 	Yes; Per channel group
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
MAINT LED	Yes; Yellow LED
• NS LED	Yes; green/red LED
MS LED	Yes; green/red LED
• IO LED	Yes; red-green-yellow LED
Channel status display	Yes; green LED
• for channel diagnostics	Yes; red LED
For load voltage monitoring	Yes; green LED
Connection display LINK TX/RX	Yes; green LED, only link
Potential separation	
between the load voltages	Yes
between Ethernet and electronics	Yes
Potential separation channels	
between the channels	Yes
between the channels, in groups of	8
between the channels and the power supply of the electronics	8 channels are non-isolated and 8 channels are isolated from supply voltage 1L+
Isolation	
tested with	
• 24 V DC circuits	707 V DC (type test)
 Test voltage for interface, rms value [Vrms] 	1 500 V; According to IEEE 802.3
Degree and class of protection	
IP degree of protection	IP65/67/69K
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Standards, approvals, certificates		
Suitable for safety-related tripping of standard modules	Yes; From FS01	
Highest safety class achievable for safety-related tripping of standard modules		
 Performance level according to ISO 13849-1 	PL d	
 Category according to ISO 13849-1 	Cat. 3	
 SIL acc. to IEC 62061 	SIL 2	
 remark on safety-oriented shutdown 	https://support.industry.siemens.com/cs/de/en/view/39198632	
Ambient conditions		
Ambient temperature during operation		
• min.	-40 °C	
• max.	60 °C	
Altitude during operation relating to sea level		
 Ambient air temperature-barometric pressure-altitude 	Up to max. 5 000 m, at installation height > 2 000 m additional restrictions	
connection method		
Design of electrical connection	4/5-pin M12 circular connectors	
Design of electrical connection for the inputs and outputs	M12, 5-pin, A-coded	
Design of electrical connection for supply voltage	M12, 4-pin, L-coded	
Dimensions		
Width	45 mm	
Height	200 mm	
Depth	48 mm	
Weights		
Weight, approx.	780 g	

last modified:

9/22/2022