SIEMENS

Data sheet

6ES7148-6JG00-0BB0



SIMATIC ET 200eco PN, CM 8x IO-Link + DI 4x 24 V DC, M12-L, 8x M12, 4x port class A + 4x port class B, channel diagnostics, shared device with 2 controllers, prioritized startup, 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)	0FA9H			
Product function				
• I&M data	Yes; I&M0 to I&M3, I&M5			
Isochronous mode	No			
Prioritized startup	Yes			
Engineering with				
STEP 7 TIA Portal configurable/integrated from version	STEP 7 V17 or higher with HSP 0378			
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	No			
• 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			
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)	70 mA; without load			
from load voltage 1L+ (unswitched voltage)	12 A; Maximum value			
from load voltage 2L+, max.	12 A; Maximum value			
Encoder supply				

Subject to change without notice © Copyright Siemens

Number of outputs 8 24 Varacciae ruppity Varacciae ruppity Forse Totas 0.5.6. Per Channel Power Totas Power Totas Power Totas S.6. Per Channel Address space pare module 2.0.4. byte; 4.8. byte; 5.5. W Address space pare module 2.0.4. byte; 4.8. byte; 5.5. W Address space pare module 2.0.4. byte; 4.8. byte; 5.5. W Address space pare module 2.0.4. byte; 4.8. byte; 5.5. W Address space pare module 2.0.4. byte; 4.8. byte; 5.5. W Address space pare module 2.0.4. byte; 4.8. byte; 5.5. W Andres of configurable submodules, max. 9 Uppate Imputs 4.4. byte; 4.8. byte; 5.5. W Number of angle imputs 4.4. byte; 4.8. byte; 5.5. W Andres space imputs 4.4. byte; 4.8. byte; 5.5. W Number of angle imputs 4.4. byte; 4.8. byte; 5.5. W Andres space imputs 4.1. byte; 4.5. byte; 5.5. W Andres space imputs 4.9. byte; 5.5. B		0			
• Not-disclar polectionYes, per channel electronic• Output cornt, max.0.5. Per channelPerser loss5.5 WAddress area5.5 WAddress spie.264 byte, + 8 bytes for QL information• inputs264 byte, + 8 bytes for QL information• inputs9Pinter for of parable submodules, max.9Optistat inputsPreceding• Number of configuration submodules, max.9SubmodulesPreceding• information submodules, max.9Optistat inputsPreceding• information submodules, max.9OptistationsPreceding• informationsPreceding• informationsPreceding• informationsPreceding• informations4Input diveling2.5 mA• or signal "0"4.5 mA• or signal "1", bp.2.5 mA• or signal "1", bp.2.5 mA• or signal "1", bp.3.5 mA• or s	Number of outputs	о 			
0.5 A. Per drannel Paner Lass Preamer Lass Address sprase per module Address sprase per module - Outpuis 264 byte: +8 bytes for QI information - Outpuis 264 byte: +8 bytes for QI information - Outpuis 264 byte: +8 bytes for QI information - Outpuis 264 byte: +8 bytes for QI information - Outpuis 264 byte: +8 bytes for QI information - Outpuis 9 Number of configurable submodules, max 9 - Annote of configurable submodules, max 9 - Annote of configurable submodules, max 9 - Preading Preading - Outpuis of configurable submodules (max 9 - Annot value (MCC) 24 V - Or or signal T*1 - Outpuis 00 °C, max. - Or or signal T*1 - Outpuis 00 °C - Or or signal T*1 - Outpuis 00 °C - Or or signal T*1 - Outpuis 00 °C outpuis 00 °C, max. - Outpuis 00 °C outpuis 00 °C, max. - Outpuis 00 °C outpuis 00 °C, max. - Outpuis 00 °C out		Vac: par channel electronic			
Prover loss 5.W Address area 2.5K byte Address area 2.5K byte Address area 9 Parkar configuration 4 Sourcodules 4 Address area 9 Parkar configuration 4 Sourcodules 4 Inspatchareduratic curve in accounce with IEC 61131, type 3 Number of simulations and positions — up of Sourcodules 4 Inspatchareduratic curve in accounce with IEC 61131, type 3 Number of simulations and positions — or signal "1" +1110 -3100 Yes Inspatcharea 4 50 -50° -1110 -50° Sour spatcharea 110 - 50°					
Protect loss, typ. 5.5 W Address para Address para Address para (Address para) 264 byte; + 8 bytes for Q information - Outputs 264 byte; + 8 bytes for Q information - Outputs 264 byte; + 8 bytes for Q information - Outputs 9 Diptal Inputs 9 Number of configurations 9 Number of configurations submodules, max. 9 Protections input Preading Input dranacteristic curve in accordance with IEC 61131, hpp 3 Yes Number of simultaneously controllable inputs 4 Bourcehains input Preading Input dranacteristic curve in accordance with IEC 61131, hpp 3 Yes Number of simultaneously controllable inputs 4 Input dranacteristic curve in accordance with IEC 61131, hpp 3 Yes Instandiable 4 Input dranacteristic curve in accordance with IEC 61131, hpp 3 Yes Number of simultaneously controllable inputs 4 Input dranacteristic curve in accordance with IEC 61131, hpp 3 Yes Input dranacteristic curve in accordance with IEC 61131, hpp 3 Yes <tr< td=""><td></td><td colspan="4">0.5 A; Per channel</td></tr<>		0.5 A; Per channel			
Address space par module Address space par module • Lopuls 264 byte; + 8 bytes for Ol information • Upplate 264 byte; + 8 bytes for Ol information • Number of configuration submodules, max. 9 Optical inputs 4 • Sciencodific inputs 4 • Sciencodific inputs 4 • Sciencodific inputs 4 • Concein inputs Preading • Input characteristic curve in accordance with IEC 61131, bps 3 Yes Number of information curve in accordance with IEC 61131, bps 3 Yes Input characteristic curve in accordance with IEC 61131, bps 3 Yes Input characteristic curve in accordance with IEC 61131, bps 3 Yes • For signal 10*** 4 Input characteristic curve in accordance with IEC 61131, bps 3 Yes • For signal 10*** 4 Input characteristic curve in accordance with IEC 61131, bps 3 Yes • For signal 10**** • 110 = -30V Input charge • 100***********************************					
Address space par module Inputs Outputs Output Outputs Outputs Outputs Outputs Outputs Output		5.5 W			
ePopuls264 byte; s' 8 bytes for Qi information- Ouppu's266 byteHardwate configuration266 byteHardwate configuration submodules, max.9- Number of configuration submodules, max.9Digital inputs4Surcostink inputPareadingSurcostink inputPareadingSurcostink inputPareadingSurcostink inputPareadingImput characteristic curve in accordance with EC 61131; type 3YesNumber of simulaneously controllable inputs4Imput characteristic curve in accordance with EC 61131; type 3Yes- up to Bo "C, max.4Imput characteristic curve in accordance with EC 61131; type 3Yes- up to Bo "C, max.4Imput characteristic curve in accordance with EC 61131; type 3Yes- up to Bo "C, max.4Imput characteristic curve in accordance with EC 61131; type 3Yes- up to try "T, type.2 for AVImput characteristic curve in accordance with EC 61131; type 3Yes- up to try "T, type.2 for ANImput characteristic curve in accordance with EC 61131; type 3Yes- up to try "T, type.2 for ANImput characteristic curve in accordance with EC 61131; type 3Yes- up to try "T, type.2 for ANImput characteristic curve in accordance with EC 61131; type 3Yes- up to try "T, type.2 for ANImput characteristic curve in accordance with EC 61131; type 3Yes- up to try "T, type.3 to type					
• Colpuls266 byte1 archarate configuration9• Number of configurable submodules, max.9• Number of configurable submodules, max.9• ParadingParadingInput characteristic curve in accordance with IEC 61131. type 3Yes• Number of digital inputsParading• number of digital inputs4• Parading options4• Input characteristic curve in accordance with IEC 61131. type 3Yes• Number of digital inputs4• Number of digital inputs4• Number of digital inputs4• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• Input characteristic curve in accordance with IEC 61131. type 3Yes• In	Address space per module				
standards 9 Option in prusits 9 Number of configurable submodules, max. 9 Option in prusits 4 Scoreablink hipd Personaling Input characheristic curve in accordance with IEC 61131, type 3 Yes Number of infigurables 4 Scoreablink hipd Personaling	Inputs	264 byte; + 8 bytes for QI information			
Submedules 9 Number of configurable submodules, max. 9 Number of digital inputs 4 Sourcesink input Preading Input obtandeneitistic curve in accordance with IEC 61131, type 3 Yes Number of simulaneously controllable inputs 4 all mouting positions 4	Outputs	256 byte			
Piptial Inputs 9 Diptial Inputs 4 Sourcestink Input Preading Input characteristic curve in accordance with IEC 61131. type 3 Yes Number of simulaneously controllable inputs 4 Input characteristic curve in accordance with IEC 61131. type 3 Yes Input characteristic curve in accordance with IEC 61131. type 3 4 Input characteristic curve in accordance with IEC 61131. type 3 4 Input characteristic curve in accordance with IEC 61131. type 3 4 Input characteristic curve in accordance with IEC 61131. type 3 4 Input characteristic curve in accordance with IEC 61131. type 3 4 Input characteristic curve in accordance with IEC 61131. type 3 54 V Input characteristic curve in accordance with IEC 61131. type 3 54 V Input characteristic curve in accordance with IEC 61131. type 3 54 V Input characteristic curve in accordance with IEC 61131. type 3 54 V Input characteristic curve in accordance with IEC 61131. type 3 55 m A Input characteristic curve in accordance with IEC 61131. type 3 50 m Cable length 90 m 90 m Input characterin forth 1**	Hardware configuration				
Diplical inputs 4 Number of digital inputs 4 Input characteristic curve in accordance with IEC 61131, type 3 Yes Number of simulaneously controllable inputs 4 Input characteristic curve in accordance with IEC 61131, type 3 Yes Number of simulaneously controllable inputs 4 Input stage 4 • Relet Value (DC) 24 V • for signal '1', typ. 2.5 mA Input stage • for signal '1', typ. • for signal '1', typ. 2.5 mA Input stage • for signal '1', typ. • for signal '1', typ. 2.5 mA Input stage • for signal '1', typ. • of or signal '1', typ. 2.5 mA Input stage • end '1' max. • of or tarde value of input voltage) for stand value of input voltage • for signal '1', typ. 2.5 mA Input stage • end '1' max. • of or tarde value of input voltage 16 • of vin 'n max. 30 m • Ol hub simultaneously controllable 8 • Ol hub simultaneously controllable 8	Submodules				
Number of digital inputs 4 SourceStink input Preading Input characteristic curve in accordance with IEC 61131, type 3 Yes Number of simultaneously controllable inputs 4 all mouting positions 4 up to 80 °C, max. 4 • Rated value (DC) 24 V • for signal °C at to signal °C • for signal °C at row signal °C • for signal °C at row signal °C • for signal °C at row to input voltage) for datacted inputs at row to "input voltage) for signal °C °C, max. typically 3 ms	 Number of configurable submodules, max. 	9			
Sourcelsink ipud P.reading Input tharacteristic curve in accordance with IEC 61131, type 3 Yes Number of Simulaneously controllable inputs 4 Input voltage 24 V • for signal '1", typ. 25 mA Input delay (for rated value of input voltage) for signal '1", typ. for signal '1", typ. 25 mA Input delay (for rated value of input voltage) for signal '1", typ. for signal '1", typ. 25 mA Input delay (for rated value of input voltage) for signal '1", typ. of signal '1", typ. 25 mA Unable delay (for rated value of input voltage) for signal '1", typ. of signal '1", typ. 25 mA Unable delay (for rated value of input voltage) for signal '1", typ. of signal '1", typ. 25 mA Unable delay (for rated value of input voltage) for signal '1", typ. O clark protocol 1.0 Yes O clark protocol 1.0	Digital inputs				
Input characteristic curve in accordance with IEC 61131, type 3 Yes Number of simultaneously controllable inputs Imput characteristic curve in accordance with IEC 61131, type 3 I mouther of simultaneously controllable inputs Imput characteristic curve in accordance with IEC 61131, type 3 I mouther of simultaneously controllable inputs Imput characteristic curve in accordance with IEC 61131, type 3 I mouther of simultaneously controllable input characteristic curve in signal '1'' Imput characteristic curve in accordance with IEC 61131, type 3 • Rated value (DC) 24 V • for signal '1''	Number of digital inputs	4			
Number of simultaneously controllable inputs all mounting positions up to 60 °C, max. 4 Input voltage • Rated value (CC) • for signal °C* - for signal °C* • for fit °C* • for signal °C* • for which simultaneously controllable 8 • for borts 8 • f	Source/sink input	P-reading			
all mounting positions 4 up to 60 °C, max. 4 Input Voltage 24 V • Rated value (DC) 24 V • for signal °C -3 to +5V • for signal °C -11 to +30V Input delay (for rated value of input voltage) -6 to signal °C • for signal °C -10 to *1', max. at *1' to *0', max. typically 3 ms Cable length -30 m • unshielded, max. 30 m Columb 8 • of which simulaneously controllable 9 • of which simulaneously controllable 9 • of or process data, input per port 33 byle <td>Input characteristic curve in accordance with IEC 61131, type 3</td> <td>Yes</td>	Input characteristic curve in accordance with IEC 61131, type 3	Yes			
up to 60 °C, max. 4 Input voltage	Number of simultaneously controllable inputs				
Input voltage • Rated value (DC) 24 V • for signal "0" -3 to +5V • for signal "1" +11 to +30V Input deay (for rated value of input voltage) - for signal "1", typ. 2.5 mA Input deay (for rated value of input voltage) - for signal "1" to "0", max. typically 3 ms - = at "1" to "0", max. typically 3 ms - at "1" to "0", max. 30 m Cable length - • unshelded, max. 30 m for Link 8 Number of ports 8 • of which simultaneously controllable 8 10-Link protocol 1.1 Yes Size of process data, input per port 33 byte Size of process data, input per module 26 byte Size of process data, output per module 256 byte Memory size for device parameter 2 byte Size of process data, outpu	all mounting positions				
Rated value (DC) 24 V if or signal '0" 30 to FV if or signal '1" if 10 + 30V input caurent if or signal '1", typ. 2.5 mA input caurent if or signal '1", typ. if or signal '1, typ. if or signal '1, typ. if or	— up to 60 °C, max.	4			
Rated value (DC) 24 V if or signal '0" 30 to FV if or signal '1" if 10 + 30V input caurent if or signal '1", typ. 2.5 mA input caurent if or signal '1", typ. if or signal '1, typ. if or signal '1, typ. if or	Input voltage				
for signal "0" -3 to +5V -1 to +3ggal '1" +1 to +3gV ingut careat for signal '1" +1 to +3gV ingut careat for signal '1" to '1" for signal '1" for si	· · ·	24 V			
• for signal "1" +11 to +30V Input deurent for signal "1", tp, 2.5 mA Input delay (for rated value of input voltage) for signal "1", tp, 2.5 mA Input delay (for rated value of input voltage) for standard inputs - at "1" to "0", max. typically 3 ms - at "1" to "0", max. typically 3 ms - at "1" to "0", max. typically 3 ms - at "1" to "0", max. typically 3 ms - at "1" to "0", max. typically 3 ms - at "1" to "0", max. S0 m Cobie length - unshielded, max. 30 m O-Link Ves - IO-Link 7ransmission rate Cycle time, min. Size of process data, input per port 33 byte Size of process data, input per port 33 byte Size of process data, output per port 32 byte Size of process data, output per port 32 byte Size of process data, output per port 32 byte Size of process data, output per port 32 byte Size of process data, output per port 32 byte Size of process data, output per port 29 byte Size of process data, output per port 29 byte Size of process data, output per port 20 byte Size of process data, output per port 29 byte Size of process data, output per port 29 byte Size of process data, output per port 20 byte Size of process data, output per port 20 byte Size of process data, output per port 20 byte Size of process data, output per port 20 byte Size of procese parameter Atytyte; for each port F		-3 to +5V			
Input current 2.5 mA Input delay (for rated value of input voltage) For standard inputs for standard inputs ypically 3 ms		+11 to +30V			
Input delay (for rated value of input voltage) for standard inputs for the standard input voltage) for standard inputs for the standard input voltage) for standard input set of voltage for the standard input set of voltage for set of voltage set of volt					
Input delay (for rated value of input voltage) for standard inputs for the standard input voltage) for standard inputs for the standard input voltage) for standard input set of voltage for the standard input set of voltage for set of voltage set of volt	•	2.5 mA			
for standard inputs					
	·	typically 3 ms			
Cable length 30 m IO-Link 10 Number of ports 8 • of which simultaneously controllable 8 10-Link protocol 1.0 Yes IO-Link protocol 1.1 Yes ITransmission rate 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) Cycle time, min. 2 ms Size of process data, input per port 33 byte Size of process data, output per module 264 byte Size of process data, output per module 266 byte Size of process data, output per module 266 byte Configuration without S7-PCT Possible; with function block IO_LINK_MASTER Configuration without S7-PCT Possible; witostart/manual function Cable length unshielded, max. 20 m Operating modes					
• unshielded, max. 30 m Io-Link 8 Number of ports 8 • of which simultaneously controllable 8 Io-Link protocol 1.0 Yes Io-Link protocol 1.1 Yes Transmission rate 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) Cycle time, min. 2 ms Size of process data, input per port 33 byte Size of process data, output per port 32 byte Size of process data, output per port 32 byte Size of process data, output per port 32 byte Size of process data, output per module 266 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes - • IO_Link Yes • DI Yes • DI Yes • DQ Yes; wax. 100 mA Connection of IO-Link devices - • Port type A Yes; via 3-core cable • via three-wire					
IO-Link Number of ports 8 • of which simultaneously controllable 8 IO-Link protocol 1.0 Yes ID-Link protocol 1.1 Yes Transmission rate 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) Cycle time, min. 2 ms Size of process data, input per port 33 byte Size of process data, output per module 264 byte Size of process data, output per module 256 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes Ves • IO-Link Yes • DQ Yes; max. 100 mA Connection of IO-Link devices Ves; via 3-core cable • Port type A Yes; via 3-core cable • Vet type B Yes; via 3-core cable • Vet type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • Vet type B Yes • Interfaces 1 Interface PROFINET with 100 Mbit/s full duplex (100BASE-TX)					
Number of ports 8 • of which simultaneously controllable 8 IO-Link protocol 1.0 Yes IO-Link protocol 1.1 Yes Transmission rate 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) Cycle time, min. 2 ms Size of process data, input per port 33 byte Size of process data, output per port 32 byte Size of process data, output per module 264 byte Size of process data, output per module 256 byte Memory size for device parameter 2 kbyte; for each port Memory size for device parameter 2 kbyte; for each port Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes • • IO-Link Yes • DQ Yes; max. 100 mA Connection of IO-Link devices Yes; via 3-core cable • Port type B Yes; via 3-core cable • Vas; via 3-core cable Yes; via 3-core cable • Vast three-wire connection Yes Interfaces 1 Number of PROFINET interfaces 1 Interface PROFINET with 100 Mbit/s full duplex (100BASE-TX)		30 m			
• of which simultaneously controllable8IO-Link protocol 1.0YesIO-Link protocol 1.1YesTransmission rate4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3)Cycle time, min.2 msSize of process data, input per port33 byteSize of process data, output per port32 byteSize of process data, output per port32 byteSize of process data, output per module266 byteSize of process data, output per module26 byteConfiguration without S7-PCTPossible; autostart/manual functionConfiguration without S7-PCTPossible; autostart/manual functionCable length unshielded, max.20 mOperating modes-• IO-LinkYes• DIYes• DQYes; max. 100 mAConnection of IO-Link devicesYes; via 3-core cable• Port type AYes; via 3-core cable• Port type BYes; via 3-core cable• Ves; via ditional device supply: max. 2 A per port, max. 6 A per module• via three-wire connectionYesInterfaces11.1.1.InterfaceInterface typePROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max.	30 m			
IO-Link protocol 1.0 Yes IO-Link protocol 1.1 Yes Transmission rate 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) Cycle time, min. 2 ms Size of process data, input per port 33 byte Size of process data, output per port 32 byte Size of process data, output per module 264 byte Size of process data, output per module 256 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without 57-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes - • IO-Link Yes • DQ Yes; max. 100 mA Connection of IO-Link devices - • Port type A Yes; via 3-core cable • Port type B Yes; via 3-core cable • via three-wire connection Yes • Number of PROFINET interfaces 1 1. Interface PROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link				
IO-Link protocol 1.1 Yes Transmission rate 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) Cycle time, min. 2 ms Size of process data, input per port 33 byte Size of process data, output per port 32 byte Size of process data, output per port 32 byte Size of process data, output per port 32 byte Size of process data, output per module 266 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes - • IO-Link Yes • DI Yes • DQ Yes; via 3-core cable • Port type A Yes; via 3-core cable • Port type B Yes; via 3-core cable • via three-wire connection Yes Interfaces 1 Number of PROFINET interfaces 1 Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports	8			
Transmission rate4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3)Cycle time, min.2 msSize of process data, input per port33 byteSize of process data, unput per module264 byteSize of process data, output per module266 byteSize of process data, output per module256 byteSize of process data, output per module256 byteMemory size for device parameter2 kbyte; for each portMaster backupPossible with function block IO_LINK_MASTERConfiguration without S7-PCTPossible; autostart/manual functionCable length unshielded, max.20 mOperating modes10-Link• IO-LinkYes• DQYes; max. 100 mAConnection of IO-Link devicesYes; via 3-core cable• Port type AYes; via 3-core cable• Port type BYes; additional device supply: max. 2 A per port, max. 6 A per module• Via three-wire connectionYesInterfaces1Interface typePROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable	8 8			
Cycle time, min. 2 ms Size of process data, input per port 33 byte Size of process data, output per module 264 byte Size of process data, output per port 32 byte Size of process data, output per module 256 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0	8 8 Yes			
Size of process data, input per port 33 byte Size of process data, input per module 264 byte Size of process data, output per port 32 byte Size of process data, output per module 256 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes - • IO-Link Yes • DQ Yes; max. 100 mA Connection of IO-Link devices - • Port type A Yes; via 3-core cable • Ves; type B Yes; via 3-core cable • via three-wire connection Yes Number of PROFINET interfaces 1 1. Interface Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1	8 8 Yes Yes			
Size of process data, input per module 264 byte Size of process data, output per port 32 byte Size of process data, output per module 256 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes - • IO-Link Yes • DQ Yes; max. 100 mA Connection of IO-Link devices - • Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 1. Interface 1 Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3)			
Size of process data, output per port 32 byte Size of process data, output per module 256 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes . • IO-Link Yes • DI Yes; max. 100 mA Connection of IO-Link devices . • Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 1. Interface . Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min.	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms			
Size of process data, output per module 256 byte Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes 20 m • IO-Link Yes • DI Yes • DQ Yes; max. 100 mA Connection of IO-Link devices Yes; via 3-core cable • Port type A Yes; via 3-core cable • Ves; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 1. Interface PROFINET interfaces Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link Number of ports • of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte			
Memory size for device parameter 2 kbyte; for each port Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes 20 m • IO-Link Yes • DI Yes; max. 100 mA Connection of IO-Link devices Yes; wax. 100 mA • Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link Number of ports • of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, input per module	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte			
Master backup Possible with function block IO_LINK_MASTER Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes 20 m • IO-Link Yes • DI Yes; max. 100 mA Connection of IO-Link devices Yes; wia 3-core cable • Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link Number of ports • of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per port	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte			
Configuration without S7-PCT Possible; autostart/manual function Cable length unshielded, max. 20 m Operating modes • IO-Link Yes • DI Yes • DQ Yes; max. 100 mA Connection of IO-Link devices • Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 Number of PROFINET interfaces 1 Interface PROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link Number of ports • of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per port Size of process data, output per module Size of process data, output per module	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte			
Cable length unshielded, max. 20 m Operating modes • IO-Link Yes • DI Yes • DQ Yes; max. 100 mA Connection of IO-Link devices • Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 Number of PROFINET interfaces 1 Interface PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Memory size for device parameter	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 256 byte 2 kbyte; for each port			
Operating modes • IO-Link Yes • DI Yes; max. 100 mA Connection of IO-Link devices Yes; wax. 100 mA Connection of IO-Link devices Yes; via 3-core cable • Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 Number of PROFINET interfaces 1 Interface PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER			
• IO-LinkYes• DIYes• DQYes; max. 100 mAConnection of IO-Link devicesYes; max. 100 mA• Port type AYes; via 3-core cable• Port type BYes; additional device supply: max. 2 A per port, max. 6 A per module• via three-wire connectionYesInterfacesNumber of PROFINET interfaces1InterfaceInterfaceInterface typePROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link Number of ports • of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per port Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function			
• DIYes• DQYes; max. 100 mAConnection of IO-Link devicesYes; max. 100 mA• Port type AYes; via 3-core cable• Port type BYes; additional device supply: max. 2 A per port, max. 6 A per module• via three-wire connectionYesInterfacesNumber of PROFINET interfaces1InterfaceInterfaceInterface typePROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link Number of ports • of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per port Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max.	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function			
• DQ Yes; max. 100 mA Connection of IO-Link devices • Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces 1 Number of PROFINET interfaces 1 Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link Number of ports • of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m			
Connection of IO-Link devices • Port type A • Port type B • via three-wire connection Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces Number of PROFINET interfaces 1 Interface Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	• unshielded, max. IO-Link Number of ports • of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes • IO-Link	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m			
• Port type A Yes; via 3-core cable • Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module • via three-wire connection Yes Interfaces Interface Number of PROFINET interfaces 1 Interface Interface Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m			
Port type B Yes; additional device supply: max. 2 A per port, max. 6 A per module Yes Interfaces Interface Interface Interface PROFINET interfaces PROFINET with 100 Mbit/s full duplex (100BASE-TX)	 unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes IO-Link DI DQ 	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m			
via three-wire connection Yes Interfaces Number of PROFINET interfaces 1 Interface Interface Interface PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m Yes Yes Yes Yes; max. 100 mA			
Interfaces 1 Number of PROFINET interfaces 1 1. Interface Interface Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 264 byte 264 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m Yes Yes Yes; max. 100 mA Yes; via 3-core cable			
Number of PROFINET interfaces 1 1. Interface Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 264 byte 264 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m Yes Yes Yes; max. 100 mA Yes; via 3-core cable			
1. Interface Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	 unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per port Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes IO-Link DI DQ Connection of IO-Link devices Port type A Port type B via three-wire connection 	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m Yes Yes Yes; max. 100 mA Yes; via 3-core cable Yes; via 3-core cable			
Interface type PROFINET with 100 Mbit/s full duplex (100BASE-TX)	 unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per port Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes IO-Link DI DQ Connection of IO-Link devices Port type A Port type B via three-wire connection 	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m Yes Yes Yes; max. 100 mA Yes; via 3-core cable Yes; via 3-core cable			
	 unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes IO-Link DI DQ Connection of IO-Link devices Port type A Port type B via three-wire connection	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m Yes Yes Yes; max. 100 mA Yes; via 3-core cable Yes; additional device supply: max. 2 A per port, max. 6 A per module Yes			
Interface types	unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes	8 8 Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m Yes Yes Yes; max. 100 mA Yes; via 3-core cable Yes; additional device supply: max. 2 A per port, max. 6 A per module Yes			
	 unshielded, max. IO-Link Number of ports of which simultaneously controllable IO-Link protocol 1.0 IO-Link protocol 1.1 Transmission rate Cycle time, min. Size of process data, input per port Size of process data, output per module Size of process data, output per module Size of process data, output per module Memory size for device parameter Master backup Configuration without S7-PCT Cable length unshielded, max. Operating modes IO-Link DI DQ Connection of IO-Link devices Port type A Port type B via three-wire connection Interfaces Number of PROFINET interfaces	8 8 Yes Yes Yes 4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3) 2 ms 33 byte 264 byte 32 byte 256 byte 2 kbyte; for each port Possible with function block IO_LINK_MASTER Possible; autostart/manual function 20 m Yes Yes Yes Yes Yes Yes; max. 100 mA Yes; via 3-core cable Yes; additional device supply: max. 2 A per port, max. 6 A per module Yes 1			

• M12 port	Ves: 2x M12 4-nin D-coded			
Number of ports	Yes; 2x M12, 4-pin, D-coded 2			
integrated switch	2 Yes			
Protocols	165			
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			
EtherNet/IP				
Services				
— CIP Implicit Messaging	Yes			
— CIP Explicit Messaging	Yes			
— CIP Safety	No			
— Shared device	Yes; 2x EtherNet/IP Scanner			
 Number of scanners with shared device, max. 	2			
Updating times				
— Requested Packet Interval (RPI)	2 ms			
Redundancy mode				
— DLR (Device Level Ring)	No			
Address area				
 Address space per module, max. 	300 byte			
— LargeForwardOpen (Class3)	No			
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	200 h to			
Address space per station, max.	300 byte			
— Access-consistent address space	2 byte			
Updating time	0 ma			
— I/O request interval	2 ms			
Connections	10			
 — 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					
Alarms					
Diagnostic alarm	Yes: Parameterizable				
Maintenance interrupt	Yes; Parameterizable				
Diagnoses					
Diagnostic information readable	Yes				
Monitoring the supply voltage	Yes				
	Yes				
— parameterizable					
• Wire-break	Yes				
Short-circuit encoder supply	Yes; Per channel				
Diagnostics indication LED					
• RUN LED	Yes; green LED				
• ERROR LED	Yes; red LED				
MAINT LED	Yes; Yellow LED				
 Monitoring of the supply voltage (PWR-LED) 	Yes; green 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	Na				
between the channels	No				
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				
Standards, approvals, certificates					
Suitable for safety-related tripping of standard modules	Yes; From FS01				
Highest safety class achievable for safety-related tripping of stand	ard 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/de/view/39198632				
Ambient conditions	International Contractor (Contractor Contractor Contrac				
Ambient temperature during operation	40.00				
• 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, see manual for details				
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				

VA/	<u>_i</u>	~	h	10
	ΞI	ш		5

Weight, approx.

last modified:

780 g

8/16/2023 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 6ES71486JG000BB0