

Overview



Interface module for processing the communication between ET 200pro and a higher-level controller over PROFINET IO.

Technical specifications

Article number	6ES7154-4AB10-0AB0 ET200PRO, IM 154-4 PN HF
Product type designation	
General information	
Vendor identification (VendorID)	0x002A
Device identifier (DeviceID)	0x0305
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V; Unit [V]
permissible range, upper limit (DC)	28.8 V; Unit [V]
Load voltage 1L+	
• Rated value (DC)	24 V
• short-circuit protection	Yes; Fuse in lower part is exchangeable, the fuse on the IM-LP is not
• Reverse polarity protection	Yes; against destruction
Input current	
from supply voltage 1L+, max.	400 mA; Dependent on terminal module, typ. maximum value for FO connection method, full load on RWB and 20.4 V input voltage
Power losses	
Power loss, typ.	6 W; Dependent on terminal module, typ. maximum value for CU connection method, full load on RWB, for FO the value is approx. 0.7 W higher
Memory	
Micro Memory Card	No; Internal memory medium

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Address area	
Addressing volume	
• Inputs	256 byte
• Outputs	256 byte
Interfaces	
PROFINET IO	
• Automatic detection of transmission speed	Yes
• Transmission rate, max.	100 Mbit/s
• Services	ARP, PING, SNMP
Protocols	
PROFINET IO	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
• Bus fault BF (red)	Yes; Additional LEDs (MAINT, P1/2 LINK, P1/2 RX/TX) available
• Group error SF (red)	Yes
• Monitoring 24 V voltage supply ON (green)	Yes
• Load voltage monitoring DC 24 V (green)	Yes

I/O systems

ET 200 systems without control cabinet

ET 200pro – Interface modules

IM 154-4 PN

Technical specifications (continued)

Article number	6ES7154-4AB10-0AB0 ET200PRO, IM 154-4 PN HF	
Parameter		
Diagnostic alarm	1	
Hardware interrupt	1	
Swapping interrupt	1	
identifier-related diagnostic data	1	
Module status	1	
Channel-related diagnostics	1	
Startup if setpoint not equal to actual configuration	1	
Hot swapping of modules	1	
Galvanic isolation		
between backplane bus and electronics	No	
between supply voltage and electronics	Yes	
Isolation		
Isolation checked with	500 V DC	

Article number	6ES7154-4AB10-0AB0 ET200PRO, IM 154-4 PN HF	
Degree and class of protection		
Degree of protection to EN 60529		
• IP65	Yes	
• IP66	Yes	
• IP67	Yes	
Ambient conditions		
Ambient temperature in operation		
• Min.	-25 °C	
• max.	55 °C	
Storage/transport temperature		
• Min.	-40 °C	
• max.	70 °C	
Dimensions		
Width	135 mm	
Height	130 mm	
Depth	59.3 mm	
Weights		
Weight, approx.	490 g	

Ordering data

Article No.

IM 154-4 PN High Feature interface module	6ES7154-4AB10-0AB0
For communication between ET 200pro and higher-level controllers over PROFINET IO; support of PROFI-safe.	
Accessories	
CM IM PN connection module M12, 7/8"	6ES7194-4AJ00-0AA0
For connecting PROFINET PN and 24 V power supply to PROFINET interface modules, 2 x M12 and 2 x 7/8".	
CM IM PN connection module 2xRJ45	6ES7194-4AF00-0AA0
For connecting PROFINET PN and 24 V power supply to PROFINET interface modules, 2 x RJ45 and 2 x push-pull power connector.	
CM IM PN 2xSCRJ FO connection module	6ES7194-4AG00-0AA0
For connecting PROFINET PN and 24 V power supply to PROFINET interface modules, 2 x SCRJ FO and 2 x push-pull power connector.	

Article No.

M12 sealing cap	3RX9 802-0AA00
For protection of unused M12 connections with ET 200pro.	
IE M12 connecting cables	
Preassembled with two M12 connectors, up to 85 m, in various lengths:	
0.3 m	6XV1 870-8AE30
0.5 m	6XV1 870-8AE50
1.0 m	6XV1 870-8AH10
1.5 m	6XV1 870-8AH15
2.0 m	6XV1 870-8AH20
3.0 m	6XV1 870-8AH30
5.0 m	6XV1 870-8AH50
10 m	6XV1 870-8AN10
15 m	6XV1 870-8AN15
Other special lengths with 90° or 180° cable outlet.	See http://support.automation.siemens.com/WWW/view/en/26999294
7/8" sealing caps	6ES7194-3JA00-0AA0
1 pack = 10 units	