

Overview



Interface modules for handling communication between the ET 200pro and the higher-level master over PROFIBUS DP.

Technical specifications

	6ES7 154-1AA01-0AB0	6ES7 154-2AA01-0AB0
Supply voltages		
Supply voltage of electronics 1L+		
• Rated value (DC)	24 V	24 V
• Short-circuit protection	Yes; over exchangeable fuses	Yes; over exchangeable fuses
• Reverse polarity protection	Yes; against destruction	Yes; against destruction
Rated value		
• 24 V DC	Yes	Yes
• Permissible range, lower limit (DC)	20.4 V	20.4 V
• Permissible range, upper limit (DC)	28.8 V	28.8 V
Current consumption		
from supply voltage 1L+, max.	200 mA	200 mA
Power losses		
Power loss, typ.	5 W	5 W
Address area		
Addressing volume		
• Outputs	244 byte	244 byte
• Inputs	244 byte	244 byte
PROFIBUS DP		
Automatic detection of transmission speed	Yes	Yes
1st interface		
Type of interface	PROFIBUS DP	PROFIBUS DP
Physics	RS 485	RS 485
Functionality		
• DP slave	Yes	Yes
DP slave		
• Services		
- SYNC/FREEZE	Yes	Yes
- Direct data exchange (slave-to-slave communication)	Yes	Yes
• Transmission rate, min.	9.6 kbit/s	9.6 kbit/s
• Transmission rate, max.	12 Mbit/s	12 Mbit/s
Parameter		
DPV1 operation	possible	possible
Process alarm	parameterizable	parameterizable
Swapping interrupt	parameterizable	parameterizable
Startup if setpoint not equal to actual configuration	parameterizable	parameterizable

SIMATIC ET 200 distributed I/O

ET 200pro

Interface modules
IM 154-1 and IM 154-2

Technical specifications (continued)

	6ES7 154-1AA01-0AB0	6ES7 154-2AA01-0AB0
Alarms/diagnostics/status information		
Diagnostic indication LED		
• Bus fault BF (red)	Yes	Yes
• Group error SF (red)	Yes	Yes
• Monitoring 24 V voltage supply ON (green)	Yes	Yes
• Load voltage monitoring 24 V DC (green)	Yes	Yes
Isolation		
Isolation checked with	500 V DC	500 V DC
Galvanic isolation		
between supply voltage and electronics	Yes	Yes
Environmental requirements		
Operating temperature		
• Min.	-25 °C	-25 °C
• Max.	55 °C	55 °C
Storage/transport temperature		
• Min.	-40 °C	-40 °C
• Max.	70 °C	70 °C
Degree of protection		
IP67	Yes	Yes
General information		
Vendor identification (VendorID)	8118H	8119H
Dimensions and weight		
Dimensions		
• Width	90 mm	90 mm
• Height	130 mm	130 mm
• Depth	59.3 mm	59.3 mm
Weight		
• Weight, approx.	375 g	375 g

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Ordering data	Order No.		Order No.
IM154-1 interface module For ET 200pro; for communication between ET 200pro and higher-level masters over PROFIBUS DP	6ES7 154-1AA01-0AB0	CM IM DP M12, 7/8" connection module For connecting PROFIBUS DP and the 24 V power supply to PROFIBUS interface modules, 2 x M12 and 2 x 7/8"	6ES7 194-4AD00-0AA0
IM154-2 High Feature interface module For ET 200pro; for communication between ET 200pro and higher-level masters over PROFIBUS DP; support of PROFIsafe	6ES7 154-2AA01-0AB0	Accessories for CM IM DP ECOFAST	
Accessories		PROFIBUS ECOFAST hybrid cable, preassembled With 2 ECOFAST connectors, trailing-type cable 2 x CU 0.64 mm ² and 4 x Cu 1.5 mm ²	
CM IM DP ECOFAST connection module For connecting PROFIBUS DP and the 24 V power supply to PROFIBUS interface modules, 2 ECOFAST Cu connections	6ES7 194-4AA00-0AA0	• 1.5 m long • 3.0 m long • 5.0 m long • 10 m long • 15 m long • 20 m long • 25 m long • 30 m long • 35 m long • 40 m long • 45 m long • 50 m long	6XV1 830-7BH15 6XV1 830-7BH30 6XV1 830-7BH50 6XV1 830-7BN10 6XV1 830-7BN15 6XV1 830-7BN20 6XV1 830-7BN25 6XV1 830-7BN30 6XV1 830-7BN35 6XV1 830-7BN40 6XV1 830-7BN45 6XV1 830-7BN50
CM IM DP direct connection module For connecting PROFIBUS DP and the 24 V power supply directly to the PROFIBUS interface modules, up to six M20 screwed cable glands	6ES7 194-4AC00-0AA0		

I: Subject to export regulations AL: N and ECCN: EAR99H