

Overview



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

Technical specifications

Article number	6ES7154-1AA01-0AB0 ET 200PRO, IM 154-1 DP	6ES7154-2AA01-0AB0 ET 200PRO, IM154-2 DP HF
Supply voltage		
Rated value (DC)	24 V	24 V
Reverse polarity protection	Yes; against destruction	Yes; against destruction
Short-circuit protection	Yes; over exchangeable fuses	Yes; over exchangeable fuses
Load voltage 2L+		
• Rated value (DC)	24 V	24 V
• Reverse polarity protection	Yes; against destruction	Yes; against destruction
Input current		
from supply voltage 1L+, max.	200 mA	200 mA
Power loss		
Power loss, typ.	5 W	5 W
Address area		
Addressing volume		
• Inputs	244 byte	244 byte
• Outputs	244 byte	244 byte
Interfaces		
Interfaces/bus type	PROFIBUS DP	PROFIBUS DP
Interface physics, RS 485	Yes	Yes
PROFIBUS DP		
• automatic detection of transmission rate	Yes	Yes
• Transmission rate, min.	9.6 kbit/s	9.6 kbit/s
• Transmission rate, max.	12 Mbit/s	12 Mbit/s
• SYNC capability	Yes	Yes
• FREEZE capability	Yes	Yes
• Direct data exchange (slave-to-slave communication)	Yes	Yes
Interrupts/diagnostics/status information		
Alarms		
• Diagnostic alarm	Yes; Parameterizable	Yes; Parameterizable
• Hardware interrupt	Yes; Parameterizable	Yes; Parameterizable
Diagnostics 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

I/O systems

SIMATIC ET 200 systems without control cabinet

SIMATIC ET 200pro

Interface modules > IM 154-1 and IM 154-2**Technical specifications** (continued)

Article number	6ES7154-1AA01-0AB0 ET 200PRO, IM 154-1 DP	6ES7154-2AA01-0AB0 ET 200PRO, IM154-2 DP HF
Parameter		
DPV1 operation	possible	possible
Swapping interrupt	Parameterizable	Parameterizable
Startup if setpoint not equal to actual configuration	Parameterizable	Parameterizable
Potential separation		
between supply voltage and electronics	Yes	Yes
Isolation		
Isolation tested with	707 V DC (type test)	707 V DC (type test)
Degree and class of protection		
Degree of protection acc. to EN 60529		
• IP67	Yes	Yes
Ambient conditions		
Ambient temperature during operation		
• min.	-25 °C	-25 °C
• max.	55 °C	55 °C
Ambient temperature during storage/transportation		
• min.	-40 °C	-40 °C
• max.	70 °C	70 °C
Dimensions		
Width	90 mm	90 mm
Height	130 mm	130 mm
Depth	59.3 mm	59.3 mm
Weights		
Weight, approx.	375 g	375 g

Ordering data	Article No.	Article No.
IM154-1 interface module For ET 200pro; for communication between ET 200pro and higher-level masters over PROFIBUS DP.	6ES7154-1AA01-0AB0	
IM154-2 DP High Feature interface module For ET 200pro; for communication between ET 200pro and higher-level masters over PROFIBUS DP; supports PROFI-safe.	6ES7154-2AA01-0AB0	
Accessories		
CM IM DP ECOFAST connection module For connecting PROFIBUS DP and the 24 V power supply to PROFIBUS interface modules, 2 ECOFAST Cu connections.	6ES7194-4AA00-0AA0	
CM IM DP direct connection module For connecting PROFIBUS DP and the 24 V power supply directly to PROFIBUS interface modules, up to six M20 cable glands.	6ES7194-4AC00-0AA0	
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".	6ES7194-4AD00-0AA0	
Accessories for CM IM DP ECOFAST		
PROFIBUS ECOFAST hybrid cable, pre-assembled With 2 ECOFAST connectors, trailing-type cable with 2 x Cu 0.64 mm ² and 4 x Cu 1.5 mm ² , in various lengths:		
1.5 m	6XV1830-7BH15	
3.0 m	6XV1830-7BH30	
5.0 m	6XV1830-7BH50	
10 m	6XV1830-7BN10	
15 m	6XV1830-7BN15	
20 m	6XV1830-7BN20	
PROFIBUS ECOFAST hybrid cable GP, pre-assembled With 2 ECOFAST connectors, trailing-type cable with 2 x Cu 0.64 mm ² and 4 x Cu 1.5 mm ² , in various lengths:		
1.5 m	6XV1860-3PH15	
3.0 m	6XV1860-3PH30	
5.0 m	6XV1860-3PH50	
10 m	6XV1860-3PN10	
15 m	6XV1860-3PN15	
20 m	6XV1860-3PN20	
PROFIBUS ECOFAST hybrid cable, non-assembled Trailing-type cable with 2 x Cu 0.64 mm ² and 4 x Cu 1.5 mm ² , in various lengths:		
50 m	6XV1830-7AN50	
100 m	6XV1830-7AT10	
PROFIBUS ECOFAST hybrid connector 180 ECOFAST Cu, 2 x Cu, 4 x 1.5 mm ² , HANBRID connector		
• With male insert, 5-pack	6GK1905-0CA00	
• With female insert, 5-pack	6GK1905-0CB00	
PROFIBUS ECOFAST hybrid connector angular ECOFAST Cu, 2 x Cu, 4 x 1.5 mm ² , HANBRID connector		
• With male insert, 5-pack	6GK1905-0CC00	
• With female insert, 5-pack	6GK1905-0CD00	
Accessories for CM IM DP direct		
PROFIBUS trailing cable	6XV1830-3EH10	
Max. acceleration 4 m/s ² , at least 3 million bending cycles, bending radius at least 60 mm, 2-core shielded, sold by the meter, minimum order quantity 20 m, maximum order quantity 1 000 m.		
PROFIBUS FC Food bus cable	6XV1830-0GH10	
With PE sheath for use in the food and beverages industry, 2-core, shielded, sold by the meter, minimum order quantity 20 m, maximum order quantity 1 000 m.		
PROFIBUS FC Robust bus cable	6XV1830-0JH10	
With PUR sheath for use in environments subject to harsh chemicals and extreme mechanical stress, 2-core, shielded, sold by the meter, minimum order quantity 20 m, maximum order quantity 1 000 m.		
Power line	6XV1830-8AH10	
5-core, 5 x 1.5 mm ² , trailing type, sold by the meter, minimum order quantity 20 m, maximum order quantity 1 000 m.		