



Current consumption (rated value)	29 mA
<b>Power loss</b>	
Power loss, typ.	0.7 W
<b>Address area</b>	
Address space per module	
• Inputs	8 byte
<b>1. Interface</b>	
<b>Interface types</b>	
• RS 485	Yes
• RS 422	Yes
• RS 232	Yes
<b>Interface types</b>	
<b>RS 232</b>	
• Transmission rate, max.	115.2 kbit/s
• Cable length, max.	15 m
• RS 232 auxiliary signals	RTS, CTS, DTR, DSR, RI, DCD
<b>RS 485</b>	
• Transmission rate, max.	115.2 kbit/s
• Cable length, max.	1 200 m
<b>RS 422</b>	
• Transmission rate, max.	115.2 kbit/s
• Cable length, max.	1 200 m
• 4-wire full duplex connection	Yes
• 4-wire multipoint connection	Yes
<b>Protocols</b>	
<b>Integrated protocols</b>	
<b>Freeport</b>	
— Telegram length, max.	2 kbyte
— Bits per character	7 or 8
— Number of stop bits	1 or 2 bit
— Parity	None, even, odd, always 1, always 0, any
<b>3964 (R)</b>	
— Telegram length, max.	2 kbyte
— Bits per character	7 or 8
— Number of stop bits	1 or 2 bit
— Parity	None, even, odd, always 1, always 0, any
<b>Modbus RTU master</b>	
— Address area	1 to 247, extended 1 to 65535
— Number of slaves, max.	32
<b>MODBUS RTU slave</b>	

— Address area	1 to 247, extended 1 to 65535
<b>Telegram buffer</b>	
• Buffer memory for telegrams	4 kbyte
• Number of telegrams which can be buffered	255
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Yes
<b>Alarms</b>	
• Diagnostic alarm	Yes
• Hardware interrupt	No
<b>Diagnostic messages</b>	
• Wire-break	Yes
<b>Diagnostics indication LED</b>	
• Monitoring of the supply voltage (PWR-LED)	Yes; Green PWR LED
• for module diagnostics	Yes; green/red DIAG LED
• Receive RxD	Yes; Green LED
• Transmit TxD	Yes; Green LED
<b>Potential separation</b>	
between backplane bus and interface	Yes
<b>Permissible potential difference</b>	
between different circuits	75 V DC/60 V AC (base isolation)
<b>Isolation</b>	
Isolation tested with	707 V DC (type test)
<b>Ambient conditions</b>	
Ambient temperature during operation	
• horizontal installation, min.	-30 °C; From FS03
• horizontal installation, max.	60 °C
• vertical installation, min.	-30 °C; From FS03
• vertical installation, max.	50 °C
<b>Decentralized operation</b>	
to SIMATIC S7-300	Yes
to SIMATIC S7-400	Yes
to SIMATIC S7-1200	Yes
to SIMATIC S7-1500	Yes
to standard PROFINET controller	Yes
<b>Dimensions</b>	
Width	15 mm
Height	73 mm
Depth	58 mm
<b>Weights</b>	

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Weight, approx.

30 g

**last modified:**

08/16/2019