

**Data sheet** SM 151 (151-4PH00)

## Technical data

Order no.	151-4PH00
Туре	SM 151
General information	
Note	-
Features	PROFIBUS-DP slave 16 inputs
Technical data power supply	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.428.8 V
Reverse polarity protection	yes
Current consumption (no-load operation)	-
Current consumption (rated value)	55 mA
Inrush current	40 A
²t	0.15 A²s
Technical data digital inputs	
Number of inputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	-
Current consumption from load voltage L+ (without load)	-
Rated value	DC 24 V
Input voltage for signal "0"	DC 05 V
Input voltage for signal "1"	DC 1528.8 V
Input voltage hysteresis	-
Frequency range	-
Input resistance	-
Input current for signal "1"	7 mA
Connection of Two-Wire-BEROs possible	yes
Max. permissible BERO quiescent current	1.5 mA
Input delay of "0" to "1"	3 ms
Input delay of "1" to "0"	3 ms
Number of simultaneously utilizable inputs horizontal configuration	16
Number of simultaneously utilizable inputs vertical configuration	16
Input characteristic curve	IEC 61131-2, type 1
Initial data size	2 Byte
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	no



Process alarm	no A YASKAWA COMPANY
Diagnostic interrupt	no
Diagnostic functions	no
Diagnostics information read-out	possible
Supply voltage display	yes
Group error display	red SF LED
Channel error display	none
Isolation	
Between channels	
Between channels of groups to	
Between channels and backplane bus	
Between channels and power supply	
Max. potential difference between circuits	
Max. potential difference between inputs (Ucm)	
Max. potential difference between Mana and Mintern (Uiso)	
Max. potential difference between inputs and Mana (Ucm)	-
Max. potential difference between inputs and Mintern (Uiso)	
Max. potential difference between Mintern and outputs	
Insulation tested with	DC 500 V
Hardware configuration	
Racks, max.	-
Modules per rack, max.	-
Number of digital modules, max.	-
Number of analog modules, max.	-
Communication	
Fieldbus	PROFIBUS-DP to EN 50170
Type of interface	RS485
Connector	Sub-D, 9-pin, female
Topology	Linear bus with bus termination at both ends
Electrically isolated	yes
Number of participants, max.	125
Node addresses	1 - 99
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
Address range inputs, max.	2 Byte
Address range outputs, max.	0 Byte
Number of TxPDOs, max.	-
Number of RxPDOs, max.	
Datasizes	
Input bytes	1
Output bytes	0
Parameter bytes	7+5
Diagnostic bytes	0
Housing	PDE / DA C C
Material	PPE / PA 6.6



Mounting	Profile rail 35 mm	A YASKAWA COMPANY	
Mechanical data			
Dimensions (WxHxD)	101.6 mm x 76 mm x 48 mm		
Weight	217 g		
Environmental conditions			
Operating temperature	0 °C to 60 °C		
Storage temperature	-25 °C to 70 °C		
Certifications			
UL certification	yes		
KC certification			