

## Data sheet

SM 152 (152-4PH00)

## Technical data

Time	
Type	SM 152
General information	
Note -	
Features P	PROFIBUS-DP slave 6 outputs
Technical data power supply	
Power supply (rated value)	OC 24 V
Power supply (permitted range)	OC 20.428.8 V
Reverse polarity protection ye	es
Current consumption (no-load operation) -	
Current consumption (rated value) 55	5 mA
Technical data digital outputs	
Number of outputs 16	6
Cable length, shielded 10	000 m
Cable length, unshielded 60	00 m
Rated load voltage D	OC 24 V
Reverse polarity protection of rated load voltage -	
Current consumption from load voltage L+ (without load) 50	0 mA
Total current per group, horizontal configuration, 40°C 4	A
Total current per group, horizontal configuration, 60°C 2	A
Total current per group, vertical configuration 2	A
Output voltage signal "1" at min. current	+ (-0.8 V)
Output voltage signal "1" at max. current	+ (-1.5 V)
Output current at signal "1", rated value 1	A
Output delay of "0" to "1"	50 µs
Output delay of "1" to "0"	00 µs
Minimum load current -	
Lamp load 5	W
Parallel switching of outputs for redundant control of a load no	ot possible
Parallel switching of outputs for increased power no	ot possible
Actuation of digital input	es
Switching frequency with resistive load m	nax. 1000 Hz
Switching frequency with inductive load m	nax. 0.5 Hz
Switching frequency on lamp load m	nax. 10 Hz
Internal limitation of inductive shut-off voltage	+ (-52 V)
Short-circuit protection of output ye	es, electronic
Trigger level 1.	.5 A
Number of operating cycle of relay outputs -	
Switching capacity of contacts -	
Output data size 2	Byte



## Status information, alarms, diagnostics

Status information, alarms, diagnostics		
Status display	green LED per channel	
Interrupts	no	
Process alarm	no	
Diagnostic interrupt	no	
Diagnostic functions	no	
Diagnostics information read-out	none	
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	
	20000	
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.	0 Byte	
Address range outputs, max.	2 Byte	
Number of TxPDOs, max.	-	
Number of RxPDOs, max.	-	
Datasizes		
Input bytes	0	
Output bytes	2	
Parameter bytes	7 + 5	



13	A YASKAWA COMPANY	
PPE / PA 6.6	PPE / PA 6.6	
Profile rail 35 mm	Profile rail 35 mm	
101.6 mm x 76 mm x	101.6 mm x 76 mm x 48 mm	
206 g	206 g	
0 °C to 60 °C	0 °C to 60 °C	
-25 °C to 70 °C	-25 °C to 70 °C	
yes		
-		
	PPE / PA 6.6 Profile rail 35 mm  101.6 mm x 76 mm x 206 g  0 °C to 60 °C -25 °C to 70 °C	