

Data sheet SM 153, CANopen slave (153-6CH00)

Technical data

Order no.	153-6CH00
Туре	SM 153, CANopen slave
General information	
Note	
Features	CAN slave 8 (12) inputs 4 (8) outputs 4x11 clamps
Technical data power supply	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.428.8 V
Reverse polarity protection	1
Current consumption (no-load operation)	-
Current consumption (rated value)	55 mA
Technical data digital inputs	
Number of inputs	8 (12
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	I
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	12
Number of simultaneously utilizable inputs vertical configuration	12
Input characteristic curve	IEC 61131-2, type 1
Initial data size	2 Byte
Technical data digital outputs	
Number of outputs	8 (4
Cable length, shielded	1000 m
Cable length, unshielded	600 m



Rated load voltage	DC 24 V	A YASKAWA COMPANY
Reverse polarity protection of rated load voltage	-	
Current consumption from load voltage L+ (without load)	55 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	L+ (-0.8 V)	
Output voltage signal "1" at max. current	L+ (-1.5 V)	
Output current at signal "1", rated value	1 A	
Output delay of "0" to "1"	150 <i>µ</i> s	
Output delay of "1" to "0"	100 µs	
Minimum load current	-	
Lamp load	5 W	
Parallel switching of outputs for redundant control of a load	not possible	
Parallel switching of outputs for increased power	not possible	
Actuation of digital input	s.	
Switching frequency with resistive load	max. 1000 Hz	
Switching frequency with inductive load	max. 0.5 Hz	
Switching frequency on lamp load	max. 10 Hz	
Internal limitation of inductive shut-off voltage	L+ (-52 V)	
Short-circuit protection of output	yes, electronic	
Trigger level	1.5 A	
Number of operating cycle of relay outputs	-	
Switching capacity of contacts	-	
Output data size	1 Byte	
Status information, alarms, diagnostics		
Status display	green LED per channel	

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Interrupts	no
Process alarm	no
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

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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

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Hardware configuration	
Racks, max.	-
Modules per rack, max.	-
Number of digital modules, max.	
Number of analog modules, max.	-
Communication	
Fieldbus	CANopen
Type of interface	CAN
Connector	Sub-D, 9-pin, male
Topology	Linear bus with bus termination at both ends
Electrically isolated	1
Number of participants, max.	126
Node addresses	1 - 99
Transmission speed, min.	10 kbit/s
Transmission speed, max.	1 Mbit/s
Address range inputs, max.	2 Byte
Address range outputs, max.	1 Byte
Number of TxPDOs, max.	1
Number of RxPDOs, max.	1
Datasizes	
Input bytes	2
Output bytes	1
Parameter bytes	
Diagnostic bytes	-
Housing	
Material	PPE / PA 6.6
Mounting	Profile rail 35 mm
Mechanical data	
Dimensions (WxHxD)	152.4 mm x 76 mm x 48 mm
Weight	266 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL508 certification	yes