

Data sheet

SM 022 (022-1SD10)

Technical data

Type SM 022 Module ID 0C82 AE00 General Information - Note - Features 4x SDO DC 24 V 0.5 A safety / FSoE Current consumption/power loss - Current consumption from backplane bus 75 mA Power loss 1 W Technical data digital outputs 4 Cable length, shielded 0000 m Cable length, shielded 0000 m Cable length, unshielded 600 m Rated load voltage DC 20.428.8 V Current per group, horizontal configuration, 40°C 2 A Total current per group, horizontal configuration, 60°C - Culput delay of 0° to 11° 100 µs Output delay of 1° to 11° 100 µs Output delay of 1° to 11° 100 µs Output delay of 0° to 11° 100 µs	Order no.	022-1SD10
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Short-circuit protection of output yes, electronic Trigger level 1.7 A Number of operating cycle of relay outputs - Switching capacity of contacts - Output data size 4 Bit	Switching frequency on lamp load	max. 10 Hz
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Number of operating cycle of relay outputs - Switching capacity of contacts - Output data size 4 Bit Status information, alarms, diagnostics	Short-circuit protection of output	yes, electronic
Switching capacity of contacts - Output data size 4 Bit Status information, alarms, diagnostics	Trigger level	1.7 A
Output data size 4 Bit Status information, alarms, diagnostics	Number of operating cycle of relay outputs	-
Status information, alarms, diagnostics	Switching capacity of contacts	-
	Output data size	4 Bit
Status display green LED per channel	Status information, alarms, diagnostics	
	Status display	green LED per channel

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Interrupts	yes, parameterizable
Process alarm	
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes, parameterizable
Diagnostics information read-out	possible
Supply voltage display	green LED
Group error display	
Channel error display	red ERR-LED and yellow ER2-LED
Isolation	
Between channels	
Between channels of groups to	-
Between channels and backplane bus	yes
Insulation tested with	DC 500 V
PWM data	
PWM channels	-
PWM time basis	· ·
Period length	-
Minimum pulse width	-
Type of output	
Safety	
Safety protocol	-
Safety requirements	SIL CL 3, PL e, Kat 4
Secure user address	1 - 4095
Watchdog	parameterizable 20ms - 65s
Two channels	Each 2 of 4 outputs switchable
Test pulse length	parameterizable 10ms - 1s
Circuit monitoring	yes
Datasizes	
Input bytes	6
Output bytes	6
Parameter bytes	16
Diagnostic bytes	20
Housing	
Material	PC / PPE GF10
Mounting	PC / PPE GF10 Profile rail 35 mm
Mechanical data	
Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
Net weight	64 g
Weight including accessories	69 g
Gross weight	85 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

YASKAWA

Certifications

UL certification	in preparation
KC certification	in preparation