

Data sheet

FM 250S (250-1BS00)

Technical data

Order no.	250-1BS00
Туре	FM 250S
General information	
Note	-
Features	1 SSI channel RS422 12/24 Bit Direct power supply to the SSI transducer Baud rate: 100/300/600 Kbit/s (default: 300 Kbit/s) 2x parameterizable DO, DC 24 V, 1 A One may be used as hold input
Current consumption/power loss	
Current consumption from backplane bus	120 mA
Power loss	1 W
Technical data digital inputs	
Number of inputs	1
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	yes
Current consumption from load voltage L+ (without load)	5 mA
Rated value	DC 20.428.8 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	-
Max. permissible BERO quiescent current	-
Input delay of "0" to "1"	3 ms
Input delay of "1" to "0"	3 ms
Number of simultaneously utilizable inputs horizontal configuration	1
Number of simultaneously utilizable inputs vertical configuration	1
Input characteristic curve	IEC 61131-2, type 1
Initial data size	4 Byte
Technical data digital outputs	
Number of outputs	2
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	yes
Current consumption from load voltage L+ (without load)	5 mA
Total current per group, horizontal configuration, 40°C	2 A

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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 " at min. current Output voltage signal "1" at max. current	L+ (-125 mV)
Output current at signal "1", rated value	1 A
Output current, permitted range to 40°C	•
Output current, permitted range to 60°C	-
Output current at signal "0" max. (residual current)	-
Output delay of "0" to "1"	max. 100 μs
Output delay of "1" to "0"	max. 350 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	-
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	1.8 A
Number of operating cycle of relay outputs	-
Switching capacity of contacts	-
Output data size	4 Byte
Status information, alarms, diagnostics	
Status display	yes
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	no
Diagnostics information read-out	none
Supply voltage display	yes
Group error display	yes
Channel error display	none
Isolation	
Between channels	
Between channels of groups to	-
Between channels and backplane bus	yes
Between channels and power supply	
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Max notential difference between circuits	·
Max. potential difference between circuits	-
Max. potential difference between inputs (Ucm)	-
Max. potential difference between inputs (Ucm) Max. potential difference between Mana and Mintern (Uiso)	-
Max. potential difference between inputs (Ucm) Max. potential difference between Mana and Mintern (Uiso) Max. potential difference between inputs and Mana (Ucm)	- - -
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Encoder frequency / baud rate	parameterizable (100k, 300kHz)
SSI pause time	35µs
Normalization	-
Bit length encoder data	24 Bit
Mode master	yes
Mode monitoring operation	-
Shift direction MSB first	yes
Shift direction LSB first	-
Binary code	yes
Gray code	yes
Datasizes	
Input bytes	4
Output bytes	4
Parameter bytes	6
Diagnostic bytes	0
Housing	
Material	PPE / PA 6.6
Mounting	Profile rail 35 mm
Mechanical data	
Dimensions (WxHxD)	25.4 mm x 76 mm x 78 mm
Net weight	100 g
Weight including accessories	-
Gross weight	-
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL certification	yes
KC certification	-