


EEx de Enclosure Modular System Relay Repeater 24 V DC Series 8510

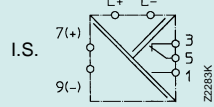
Selection table

Designation	Description			Ordering code	Weight [kg]
	Version	Voltage	Output		
 <p>8510 Relay repeater</p>	Working current (non-inverting)	24 V; DC	1 channel	8510/112-06-41-100	1,2
			2 channel	8510/122-06-51-100	1,6
	Closed-circuit current (inverting)	24 V; DC	1 channel	8510/112-06-41-200	1,2
			2 channel	8510/122-06-51-200	1,6
	Closed-circuit current (inverting) with open-circuit monitoring	24 V; DC	1 channel	8510/112-06-41-400	1,2
			2 channel	8510/122-06-51-440	1,6

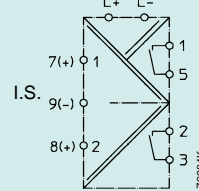
Technical data (see also page 11/83)

Schematic

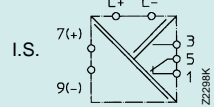
8510/112 - 06 - 41 - 100



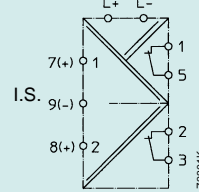
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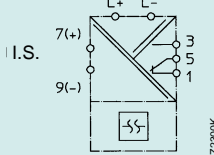
8510/112 - 06 - 41 - 200



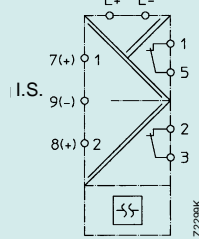
8510/112 - 06 - 51 - 200



8510/112 - 06 - 41 - 400



8510/112 - 06 - 51 - 440



STAHL

Continuation →

Technical data	
Fitted device 1 channel 2 channel	9350/10-11-10 9350/20-11-10
Explosion protection	EEx de [ia] IIC
Test certificate	8510: BVS 95.D.2025 U 9350: BVS 95.D.2093 X
Terminals for flexible wires solid wires	0,75 ... 1,5 mm ² 0,75 ... 2,5 mm ²
Ambient temperature storage operation at U _C	- 40° C ... + 80° C - 10° C ... + 40° C
Mains supply	
Rated voltage U _N	24 V, DC
Rated current I _N at U _N	42 mA
Voltage range	18 ... 35 V, DC
Max. power consumption	1,0 W
Max. power loss	0,97 W
Control input	to NAMUR or DIN 19234 Ex i control signal appearing at input is transmitted to output where it triggers output relay
Safety-related data max. voltage U _m max. current I _m max. power P _m max. capacitance C _a max. inductance L _a Insulation voltage U _M	10,6 V 29,7 mA 79 mW IIC: 2,5 µF IIB: 15 µF IIC: 40 mH IIB: 150 mH 250 V
Current for ON I _E	≥ 2,1 mA
Current for OFF I _E	≤ 1,2 mA
Switching current	1,65 mA
Hysteresis	0,2 mA
Internal resistance	1 kΩ
No-load voltage	≤ 8,2 V
Short-circuit current	≤ 8,2 mA
Output	Relay output
1 channel 2 channel	2 changeover contacts 1 changeover contact per channel
Max. switching voltage	AC: 125 V DC: 150 V
Max. switching current	AC: 0,5 W DC: 0,5 W
Max. switching power	AC: 50 VA DC: 25 W
Switching frequency	≤ 15 Hz
Switching delay ON → OFF OFF → ON	≤ 5 ms ≤ 5 ms
Contact life electrical mechanical	≥ 2 x 10 ⁷ Operations (24 V, DC, 50 mA) ≥ 2 x 10 ⁷ Operations
Back-up fuse for contacts	0,5 A, 250 V