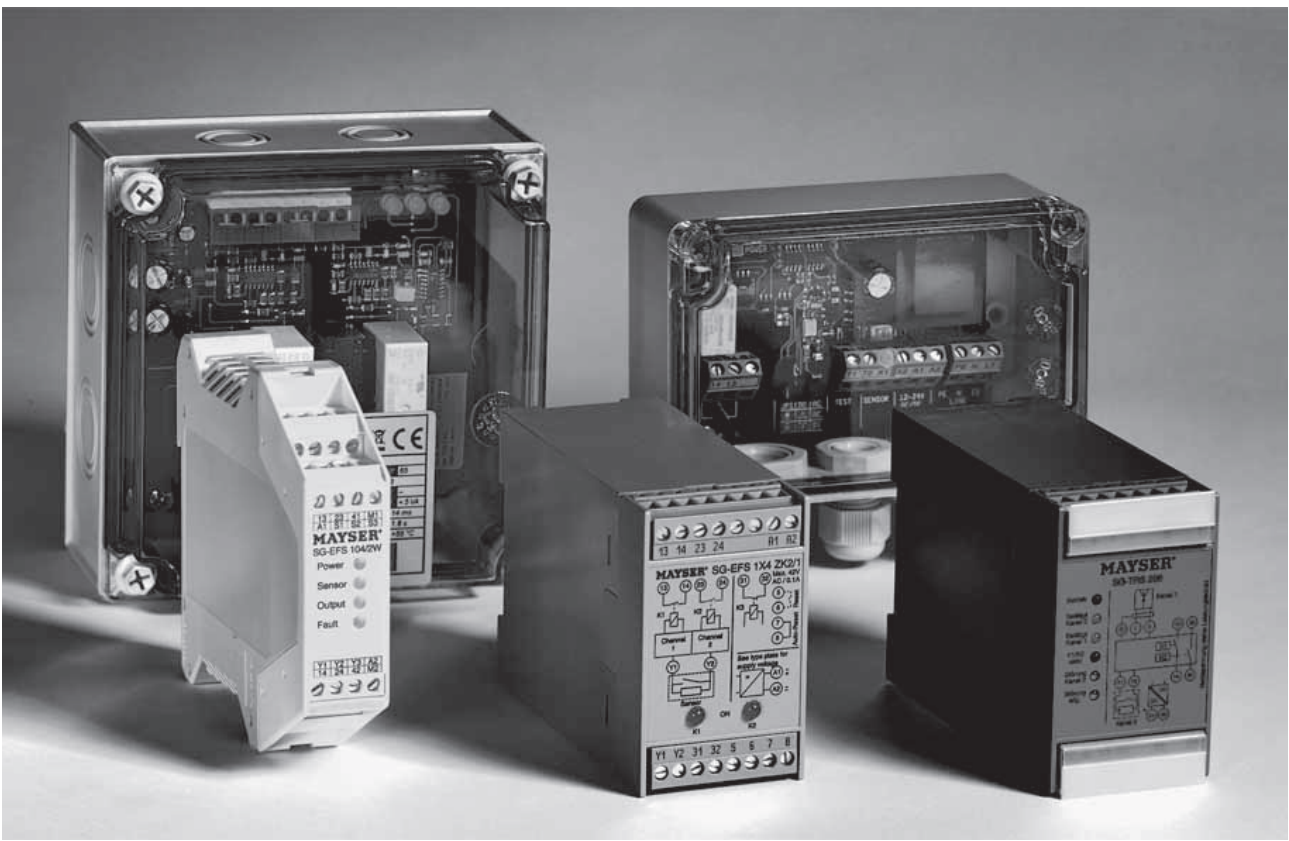




Overview



Control Units SG

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Type	SG-EFS 104/4L	SG-EFS 104/2W	SG-EFS 1X4 ZK2/1	SG-EFS 1X4 ZK2/1 8k2
Safety classifications				
ISO 13856: Reset function	with/without	with/without	with/without	with/without
ISO 13849-1:2006	Category 3 PL e	Category 3 PL d	Category 3 PL e	Category 3 PL e
MTTF _D	73 years	257 years	313 years	313 years
DC _{avg}	90%	60%	90%	90%
B _{10D} [× 10 ⁶]	0.4	1.8	2	2
Times				
Reaction time	< 30 ms	< 15 ms	< 10 ms	< 10 ms
Re-start time	< 500 ms	< 50 ms	< 190 ms	< 190 ms
Control Unit-Inputs				
Sensor types	SM, SL, MSL, SB	SM, SL, MSL, SB	SM, SL, MSL, SB	SM, SL, MSL, SB
Type of monitoring	4-wire technology	monitoring resistor 1k2 or 8k2	monitoring resistor 1k2	monitoring resistor 8k2
Monitoring circuit	1× 2-channel	1× 2-channel	1× 2-channel	1× 2-channel
Further Inputs				
Control Unit-Outputs				
Switching channels	3	2	2	2
Switching voltage (min. / max.)	- / 5 A	- / 4 A	10 mA / 2 A	10 mA / 2 A
Switching capacity (max.)	1150 VA / 120 W	1000 VA / 96 W	500 VA / 48 W	500 VA / 48 W
Further Outputs	1 signal circuit	1 signal circuit, 2 signal outputs	1 signal circuit	1 signal circuit
Mechanical operating conditions				
Mounting	IEC 60715 mounting rail	IEC 60715 mounting rail	IEC 60715 mounting rail	IEC 60715 mounting rail
IEC 60529: Degree of protection	IP20	IP20	IP20	IP20
Operating temperature	-25 to +55 °C	-25 to +55 °C	-20 to +50 °C	-20 to +50 °C
Dimensions (W × H × D)	22.5 × 99 × 114.5 mm	22.5 × 99 × 114.5 mm	45 × 75 × 105 mm	45 × 75 × 105 mm
Variants	SG-EFS 104/4L	SG-EFS 104/2W	SG-EFS 104 ZK2/1	SG-EFS 104 ZK2/1 8k2
Connecting voltage U _s	AC/DC 24 V	AC/DC 24 V	AC/DC 24 V	AC/DC 24 V
Power consumption P	< 7 VA / < 3 W	< 4 VA / < 3 W	< 5 VA / < 3 W	< 5 VA / < 3 W
			SG-EFS 114 ZK2/1	
			AC 115 V	
			< 7 VA	
			SG-EFS 134 ZK2/1	SG-EFS 134 ZK2/1 8k2
			AC 230 V	AC 230 V
			< 7 VA	< 7 VA

			
SG-SLE X4-0X1	SG-RST 204	SG-RST 153	SG-RS 204
without Category 3 PL e 279 years 90% 2	without Category 3 PL e 306 years 90% 2	without Category 2 PL c 33 years 90% 0.18	without Category 1 PL c 155 years – 1
< 14 ms < 1.8 s	< 20 ms < 50 ms	< 5 ms < 50 ms	< 15 ms < 20 ms
SM, SL, MSL, SB monitoring resistor 22k1 4x 2-channel	SM, SL, MSL, SB monitoring resistor 8k2 2x 2-channel	SM, SL, MSL, SB monitoring resistor 8k2 1 1x test signal	SL, MSL monitoring resistor 1k2 2
2 10 mA / 2 A 500 VA / 48 W 1 reverse travel command	4 – / 2 A 500 VA / 48 W –	1 – / 2 A 500 VA / 48 W –	1 10 mA / 2 A 250 VA / 48 W –
wall-mounted / PCB without enclo- sure IP65 / IP00 -20 to +55 °C 125 x 125 x 75 mm / 107 x 99 x 41.5 mm	mounting rail IEC 60715 IP20 -20 to +55 °C 45 x 75 x 105 mm	wall-mounted IP65 -30 to +55 °C 120 x 107 x 55 mm	IEC 60715 mounting rail IP20 -25 to +60 °C 22.5 x 75 x 105 mm
SG-SLE X4-051 AC/DC 24 V < 5 VA / < 3 W SG-SLE X4-021 AC 230 V < 5 VA	SG-RST 204 DC 24 V < 5 W	SG-RST 153 AC/DC 12 to 24 V < 1.5 VA / < 1.5 W SG-RST 153 AC 230 V < 3 VA	SG-RS 204 AC/DC 24 V < 4 VA / < 2 W