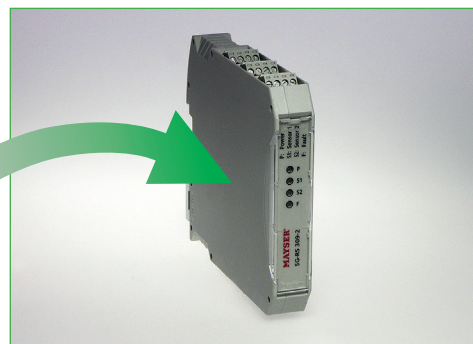


**From SG-RST 204
to SG-RS 309-2**

A simple swap!



Type	SG-RST 204	SG-RS 309-2
Safety classifications ISO 13856: Reset function ISO 13849-1:2015 only control unit as a pressure-sensitive protection device ISO 13856 MTTF _D DC _{avg} B _{10D} [× 10 ⁶]	without Category 3 PL e Category 3 PL d 306 years 90% 2	with/without Category 3 PL d Category 3 PL d 937 years 92% –
Times Reaction time Re-start time	< 20 ms < 50 ms	< 15 ms < 150 ms
Control unit Inputs Types of sensors Monitoring type Monitoring circuits	SM, SP, SL, MSL, SB Resistor 8k2 2	SM, SP, SL, MSL, SB Resistor 8k2 or 10k 2
Control unit Outputs Switching channels Switching current (min. / max.) Switching capacity (max.) additional outputs	2× 2-channel – / 2 A 500 VA / 48 W –	2× 2-channel > 0 mA / 100 mA 3.6 W 2 Signal outputs
Mechanical operating conditions Attachment IEC 60529: Degree of protection Operating temperature Dimensions (W × H × D)	Mounting rail IEC 60715 IP20 -20 to +55 °C 45 × 75 × 105 mm	Mounting rail IEC 60715 IP20 -25 to +70 °C 17.5 × 99 × 114.5 mm
Variants Part number Connecting voltage U _g	SG-RST 204 1006265 DC 24 V	SG-RS 309-2 1006747 DC 24 V to 36 V
Connections Supply voltage Sensor 1 Sensor 2 Switching channel 1.1 Switching channel 1.2 Switching channel 2.1 Switching channel 2.2 Reset automatic Reset manual Reset controlled Signal output 1 Signal output 2	A1, A2 Y1, Y2 Y3, Y4 13, 14 23, 24 33, 34 43, 44 – – – – –	A1, A2 Y1, Y2 Y3, Y4 12, A2 32, A2 22, A2 42, A2 Bridge S13, S15 and S14, S15 S13, S14 S14 M1, A2 M2, A2



LED indicators

Until now					Meaning	Now			
SG-RST 204						SG-RS 309-2			
Power	Sensor 1	Sensor 2	Fault 1	Fault 2	LED off: ○ LED on: ● LED flashing: ◉	P	S1	S2	F
○	○	○	○	○	No supply voltage	○	○	○	○
●	●	●	○	○	Control unit ready for operation	●	○	○	○
●	○	●	○	○	Sensor 1 activated	●	◉	○	○
●	●	○	○	○	Sensor 2 activated	●	○	◉	○
●	○	○	○	○	Sensor 1 and 2 activated	●	◉	◉	○
●	○	●	●	○	Fault at sensor 1	●	◉	○	◉
●	●	○	○	●	Fault at sensor 2	●	○	◉	◉
●	○	○	●	●	Fault at sensor 1 and 2	●	◉	◉	◉

Successful change: the last few steps

Fuse higher load at the output

The maximum load at the semi-conductor outputs is 0.1 A.
For higher loads, Mayser recommends the use of external relays (e.g. finder S48 or finder S75).

Check safety function

Until now	ISO 13849-1	Now
SG-RST 204	ISO 13849-1	SG-RS 309-2
3	Category	3
medium	DC _{avg}	medium
high	MTTF _D	high
d	achieved PL	d

The change to an equivalent pressure-sensitive protective device now just needs to be documented in your safety assessment under the relevant protective function.
Finished!