

Operating distance 2 mm

Class		Extra duty (65 V DC)	Extra duty (AC/DC)
Number of conductors		3-wire	2-wire
Design		M12	M12
Installation in metal		Flush	Flush
Rated operating distance s_n	mm	2	2
Enclosure material		Brass, nickel-plated	Brass, nickel-plated
Operating voltage			
• DC	V	10 ... 65	20 ... 320
• AC	V	-	20 ... 265
No-load supply current I_0			
• At 24 V DC	mA	≤ 10	1.0
• At 230 V AC	mA	-	1.5
Rated operational current I_e			
• Continuous	mA	300	200
• 20 ms	mA	-	1800
Minimum load current	mA	-	5
Switching frequency f	Hz	1200 (NO contact), 4000 (NC contact)	25/1200 (AC/DC)
Repeat accuracy R	mm	0.1	0.04
Power-up delay t_v	ms	40	100
Switching status display		Yellow LED	Yellow LED
Precautions			
• Spurious signal suppression		•	•

• Short-circuit-proof/overload-proof		•	-
• Reverse-polarity protection		•	•
• Wire-break protection		•	•
• Inductive interference protection		•	•
• Radio interference protection		•	•
Degree of protection		IP67	IP67
Types with 2 m PUR cable	Order No.	3RG4012-0AB00 3RG4012-0AA00	3RG4012-0KB00 3RG4012-0KA00
Types with M12 connector	Order No.	3RG4012-3AB00 3RG4012-3AA00	3RG4012-3KB00 3RG4012-3KA00

Class		IP68 / 69 K	IP68 / 69 K	IP68 / 69 K
Number of conductors		3-wire	3-wire	3-wire
Design		Ø 12 mm	M 12	M 12
Installation in metal		Flush	Flush	Flush
Rated operating distance s_n	mm	2	2	2
Enclosure material		Molded plastic	Molded plastic	Brass, nickel-plated
Operational voltage (DC)	V	15 ... 34	15 ... 34	15 ... 34
No-load supply current I_0	mA	≤ 17 (24 V); ≤ 30 (34 V)	≤ 17 (24 V); ≤ 30 (34 V)	≤ 17 (24 V); ≤ 30 (34 V)
Rated operational current I_e	mA	200 (≤50 °C); 150 (≤85 °C)	200 (≤50 °C); 150 (≤85 °C)	200 (≤50 °C); 150 (≤85 °C)
Switching frequency f	Hz	1200	1200	1200
Repeat accuracy R	mm	0.1	0.1	0.1
Power-up delay t_v	ms	40	40	10
Switching status display		Yellow LED	Yellow LED	Yellow LED
Precautions				
• Spurious signal		•	•	•

suppression				
• Short-circuit-proof/overload-proof		•	•	•
• Reverse-polarity protection		•	•	•
• Wire-break protection		•	•	•
• Inductive interference protection		•	•	•
• Radio interference protection		•	•	•
Degree of protection		IP68 / 69 K	IP68 / 69 K	IP68 / 69 K
Types with 2 m PUR cable	Order No.	3RG4052-0AG30 3RG4052-0AF30 3RG4052-0GB30 3RG4052-0GA30	3RG4012-0AG30 3RG4012-0AF30 3RG4012-0GB30 3RG4012-0GA30	3RG4012-0AG31 3RG4012-0GB31

Class		Greater rated operating distance	Greater rated operating distance
Number of conductors		3-wire	3-wire
Design		M8, Shorty	M8
Installation in metal		Flush	Flush
Rated operating distance s_n	mm	2	2
Enclosure material		Stainless steel	Stainless steel
Operational voltage (DC)	V	15 ... 34	10 ... 34
No-load supply current I_0	mA	≤ 17 (24 V); ≤ 30 (34 V)	≤ 17 (24 V); ≤ 30 (34 V)
Rated operational current I_e	mA	200 (≤ 50 °C); 150 (≤ 85 °C)	200 (≤ 50 °C); 150 (≤ 85 °C)
Switching frequency f	Hz	600	600 (with –3AG22: 1000)
Repeat accuracy R	mm	0.1	0.1
Power-up delay t_v	ms	40	40
Switching status display		Yellow LED	Yellow LED

Precautions			
Spurious signal suppression		•	•
Short-circuit-proof/overload-proof		•	•
Reverse-polarity protection		•	•
Wire-break protection		•	•
Inductive interference protection		•	•
Radio interference protection		•	•
Degree of protection		IP67	IP67
Types with 2 m PUR cable	Order No.	3RG4111-0AG33 3RG4111-0AF33 3RG4111-0GB33 3RG4111-0GA33	3RG4111-0AG00
Types with 8 mm combination plug	Order No.	3RG4111-7AG33 3RG4111-7AF33 3RG4111-7GB33 3RG4111-7GA33	-
Types with M12 connector	Order No.	-	3RG4111-3AG00 3RG4111-3AG22