

Technical specifications



2

Class		Extra duty (65 V DC)	Extra duty (AC/DC)
Number of conductors		3-wire	2-wire
Design		Cubic 40 mm x 40 mm	Cubic 40 mm x 40 mm
Installation in metal		Not flush	Not flush
Rated operating distance s_n	mm	20	20
Enclosure material		Molded plastic	Molded plastic
Operating voltage			
• DC	V	10 ... 65	20 ... 320
• AC	V	-	20 ... 265
No-load supply current I_0			
• At 24 V DC	mA	≤ 20	1,0
• At 230 V AC	mA	-	1,5
Rated operational current I_e			
• Constant	mA	300	300
• 20 ms	mA	-	1800
Minimum load current	mA	-	5
Switching frequency f	Hz	75	25/100 (AC/DC)
Repeat accuracy R	mm	0,75	1,0
Power-up delay t_v	ms	100	20
LEDs			
• Switching status		Yellow LED	Yellow LED

• Supply voltage		Green LED	-
Precautions			
• Spurious signal suppression		<input type="checkbox"/>	<input type="checkbox"/>
• Short-circuit-proof/overload-proof		<input type="checkbox"/>	-
• Reverse polarity protection		<input type="checkbox"/>	<input type="checkbox"/>
• Wire-break protection		<input type="checkbox"/>	<input type="checkbox"/>
• Inductive interference protection		<input type="checkbox"/>	<input type="checkbox"/>
• Radio interference protection		<input type="checkbox"/>	<input type="checkbox"/>
Degree of protection		IP65	IP65
Types with terminal compartment	Order No.	3RG4041-6AD00	3RG4041-6KD00

Class		Increased operating distance	Increased operating distance
Number of conductors		3-wire	4-wire
Design		M 18	Cubic 40 mm x 40 mm
Installation in metal		Not flush	Flush
Rated operating distance s_n	mm	20	20
Enclosure material		Brass, nickel-plated	Molded plastic
Operational voltage (DC)	V	10 ... 30	15 ... 34
No-load supply current I_0	mA	≤ 10	≤ 30 (24 V); ≤ 50 (34 V)
Rated operational current I_e	mA	200	200 (≤50 °C); 150 (≤85 °C)
Switching frequency f	Hz	200	30
Repeat accuracy R	mm	1,0	1,5
Power-up delay t_v	ms	100	100
LEDs			
• Switching status		Yellow LED	Yellow LED

• Supply voltage		-	Green LED
Precautions			
• Spurious signal suppression		<input type="checkbox"/>	<input type="checkbox"/>
• Short-circuit-proof/overload-proof		<input type="checkbox"/>	<input type="checkbox"/>
• Reverse polarity protection		<input type="checkbox"/>	<input type="checkbox"/>
• Wire-break protection		<input type="checkbox"/>	<input type="checkbox"/>
• Inductive interference protection		<input type="checkbox"/>	<input type="checkbox"/>
• Radio interference protection		<input type="checkbox"/>	<input type="checkbox"/>
Degree of protection		IP67	IP65
Types with 2m PUR cable	Order No.	3RG4623-0AB02 3RG4623-0GB02	-
Types with M12 connector	Order No.	3RG4623-3AB02 3RG4623-3GB02	-
Types with terminal compartment	Order No.	-	3RG4134-6CD01

Class		Increased operating distance	Greater rated operating distance (AC/DC)
Number of conductors		4-wire	2-wire
Design		Cubic 40mm x 40mm M 30	Cubic 40mm x 40mm M 30
Installation in metal		Flush	Flush
Rated operating distance s_n	mm	20	20
Enclosure material		Molded plastic	Molded plastic
Operating voltage			
• DC	V	15 ... 34	20 ... 320
• AC	V	-	20 ... 265

No-load supply current I_0			
• At 24 V DC	mA	≤ 30 (24 V); ≤ 40 (34 V)	1,5
• At 230 V AC	mA	-	$\leq 2,0$
Rated operational current I_e			
• Constant	mA	200 (≤ 50 °C); 150 (≤ 85 °C)	200
• 20 ms	mA	-	-
Minimum load current			
	mA	-	< 2
Switching frequency f			
	Hz	30	25/30 (AC/DC)
Repeat accuracy R			
	mm	0,75	0,75
Hysteresis H			
	mm	0,05 ... 3,3	0,05 ... 3,3
Power-up delay t_v			
	ms	100	100
LEDs			
• Switching status		Yellow LED	Yellow LED
• Supply voltage		Green LED	-
Precautions			
• Spurious signal suppression		<input type="checkbox"/>	<input type="checkbox"/>
• Short-circuit-proof/overload-proof		<input type="checkbox"/>	-
• Reverse polarity protection		<input type="checkbox"/>	<input type="checkbox"/>
• Wire-break protection		<input type="checkbox"/>	-
• Inductive interference protection		<input type="checkbox"/>	<input type="checkbox"/>
• Radio interference protection		<input type="checkbox"/>	<input type="checkbox"/>
Degree of protection			
		IP67	IP67
Types with M12 connector			
	Order No.	3RG4138-3CD00 3RG4138-3GD00	3RG4138-3KB00