

4CR

Enclosed Terminal Microswitches

Standard

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4CR

Characteristics	■ Precise movements and exceptional repeat accuracy ■ Robust metal housing
Rating	Up to 250 VAC, 15 A
Dimensions (mm)	53.1 × 20.6 × 30.8
Actuator	Spring plunger, spring plunger with in-line roller
Approvals	UL, CSA



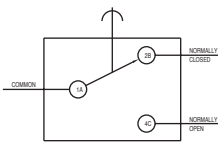
Preferred Range

Ordering Reference	Actuating Force (N) (ozf)		Sealing	Operating pos. (mm) (in)		Terminal	Circuit	Actuator	Contacts	Electrical rating
4CRQ	2.8	10.00	IP40	21.0	0.830	Screw	CO	Spring plunger	Silver	Up to 250 VAC, 15 A
4CRQR	2.8	10.00	IP40	21.0	0.830	Screw	CO	In-line roller	Silver	Up to 250 VAC, 15 A

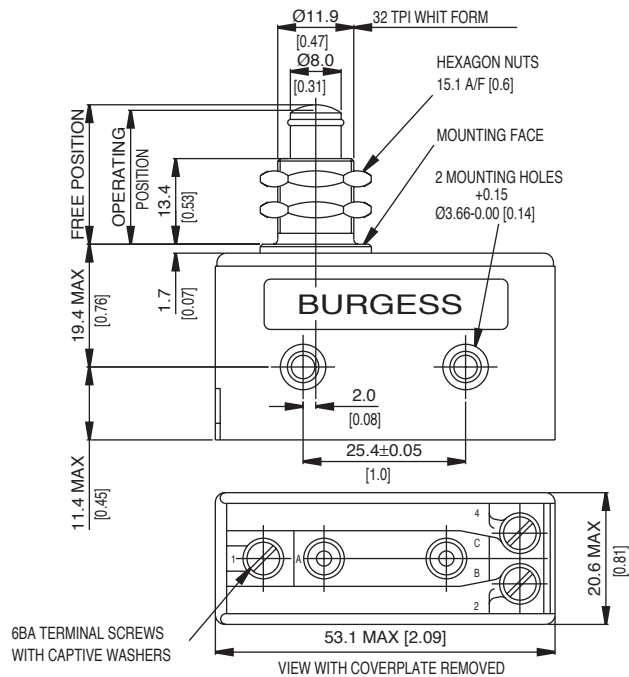
Specifications

Housing	Zinc base alloy
Base Plate	Phenolic
Plunger	Mild steel
Mechanism	Single pole change-over
Contacts	Silver
Terminals	Removable screw terminals, insulated cover plate
Temperature	-10°C to +85°C
Mechanical life	10 ⁶ cycles minimum (impact free actuation)
Protection	IP40 (enclosure)
Mounting	Panel or side mounting

Circuit diagram



Dimensions



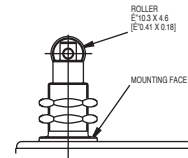
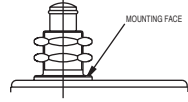
Recommended maximum electrical ratings

Voltage (max)	Resistive load (A)	Inductive load	Horsepower	Approval
250 VAC	15 (0.75 pf)	5	-	CSA 22.2 No. 55 - 6,000 operations
125 VAC	10 (0.75 pf)	-	-	CSA 22.2 No. 55 - 6,000 operations
250 VAC	-	-	¼ HP (0.45 pf)	CSA 22.2 No. 55 - 6,000 operations
125 VAC	-	-	¼ HP (0.45 pf)	CSA 22.2 No. 55 - 6,000 operations
0 - 15 VDC	10	-	-	General rating - 50,000 operations
15 - 30 VDC	5	-	-	General rating - 50,000 operations

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Operating Characteristics

Actuator	Reference	Actuating Force Maximum		Release Force Minimum		Free Position Maximum		Operating Position		Movement Differential Maximum		Over travel	
		(N)	(ozf)	(N)	(ozf)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
Spring plunger	4CRQ	2.8	10.00	1.1	4	21.8	0.85	21.0 ± 0.7	0.83 ± 0.028	0.05	0.002	3.56	0.14
Spring plunger with in-line roller	4CRQR	2.8	10.00	1.1	4	30.1	1.19	29.0 ± 0.7	1.16 ± 0.028	0.05	0.002	3.56	0.14



Ordering Reference

Type	4CR	
Actuators	Q	Spring plunger
	QR	Spring plunger with in-line roller