

CROUZET V3DS-8329 MINIATURE MICROSWITCHES

Crouzet's line of switches are based on snap-action technology incorporated into microswitches, limit switches, and manually operated switches. A wide variety of standard products are complemented by Crouzet's capability and desire to adapt or even fully customize switches tailored to customer needs.

Crouzet's high quality product line is suitable for a range of applications, including use in harsh environments or where other challenging requirements exist.



SEALED AND COMPACT FOR HARSH ENVIRONMENTS

Applications Include:

- » Lifts
 - › Position detection
 - › Lift position
 - › Door opening control
 - › Sense position for movable platforms
- » Access Control
 - › Control barriers' opening/closing
 - › Compact size
 - › Contacts gold-plated
 - › IP 67 - Wires output
- » Lawn Maintenance Equipment
 - › Robust - IP67 sealed
 - › Senses operator presence or absence (switch under the seat)
 - › Safely disengages cutting deck if the operator leaves the seat
 - › Safely turns off deck or motor (switch at handbrake or under hood)
- » Forklift Trucks
 - › Senses operator presence or absence (switch under the seat)
 - › Limits over-extension of lift bars
 - › Safely controls excessive vertical lift
- » Electrical Distribution
 - › Signal defect
 - › Cam position detection
- » Green House
 - › Drive ventilation windows
 - › Position detection



MINIATURE MICROSWITCHES - SEALED, COMPACT

V3DS - 8329

- » C-spring snap-action mechanism with wiping contacts
- » IP67 protection
- » Broad range of operating forces from 1 N to 4.5 N
- » Quick-connect terminals or wire lead output
- » Ratings from 1 mA 4 Vc to 10 A 250 Va
- » Choice of actuators on 3 possible mounting positions (pre-assembled or retrofittable)
- » cURus and CCC approved

Standard Product

Crouzet's full range of microswitches, limit switches, and manually operated switches are readily available and meet most customers' needs, even in demanding applications. Many of these products come with a variety of field-mountable levers that can be mounted in multiple mounting positions.

Adapted Product

When you need a cable or connector added to a standard product, modified levers, or even more complex adaptations such as extended levers or modified mounting hardware, Crouzet's experts are ready to offer design and prototyping support, often with nominal minimum order requirements.

Product With Added Value

Sometimes, space constraints, environmental conditions, or technical and certification requirements necessitate products developed specifically to a customer specification. Volume users looking for special product developed in a collaborative process can take advantage of Crouzet's rich technical expertise in the development of application-specific product.



Main specifications

		Standard 83293	High current 83291	High current High force 83290	Low force 83294	Dual-current 83298	Dual-current Low force 83299
Function	Connections						
I (changeover)	W3 (QC 6.3 x 0.8)	83293001	83291001	83290001	83294001	83298001	83299001
I (changeover)	F0 (wires)	83293009	83291009	83290009	83294009	83298009	83299009
R (normally closed)	W3 (QC 6.3 x 0.8)	●	●	●	●	●	●
R (normally closed)	F0 (wires)	83293609	83291609	83290609	83294609	83298609	83299609
C (normally open)	W3 (QC 6.3 x 0.8)	●	●	●	●	●	●
C (normally open)	F0 (wires)	83293809	83291809	83290809	83294809	83298809	83299809
Electrical characteristics							
Rating nominal / 250 V AC (A)		5	10	10	3	3*	3*
Rating thermal / 250 V AC (A)		7.5	10	10	7.5	6	6
Rating UL / 125/250 VAC (A)		6(1)	10(2)	10(2)	6(1)	6(1) - 0.1(0.04)	6(1) - 0.1(0.04)
Mechanical characteristics							
Maximum operating force (N)		2	2.5	4.5	1	2	1
Min. Release force (N)		0.2	0.5	0.8	0.1	0.2	0.1
Max. Allowable overtravel force (N)		20	20	20	20	20	20
Rest position max. (mm)		16.2	16.2	16.2	16.2	16.2	16.2
Operating position (mm)		14.7 ±0.5	14.7 ±0.5	14.7 ±0.5	14.7 ±0.5	14.7 ±0.5	14.7 ±0.5
Maximum differential travel (mm)		0.5	0.5	0.5	0.5	0.5	0.5
Min. overtravel (mm)		1	1	1	1	1	1
Ambient operating temperature (°C)		-40 +85	-40 +85	-40 +85	-40 +85	-40 +85	-40 +85
Mechanical life for 2/3 OT (operations)		10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶
Contact gap (mm)		1	1	1	1	1	1
Weight, terminal versions (g)		9	9	9	9	9	9
Weight, wire versions (g)		39	39	39	39	39	39