

1520 Top Mounted Flow Switch

Form 499CM

1520 is a vertically mounted, vane-operated flow switch suitable for plant and OEM applications where open or closed contacts are required to signal flow or no flow conditions. The vane extension arm moves a magnet that actuates (deactuates) a hermetically sealed

reed switch.

Product Specifications

Mounting

Orientation Vertical mount only **Connection Size** 1-1/2" through 6" **Connection Type** NPT(M) or Flanged Maximum Process Pressure* 5000 psi (345 bar) **Process Temperature Range** -40 to 400°F (-40 to 204°C)

Electrical

Switch Type Hermetically sealed reed switch

with 18" 20 AWG wire leads

Class I, Group A, B, C & D; Housing

Division 1 & 2 with CS option

Optional Relay Housing Class I, Groups C & D,

Divisions 1 & 2 with CS option

Connection Size 1/2" NPT(F)

Minimum Flow Rate 1 FPS

Design Code ANSI B31.3

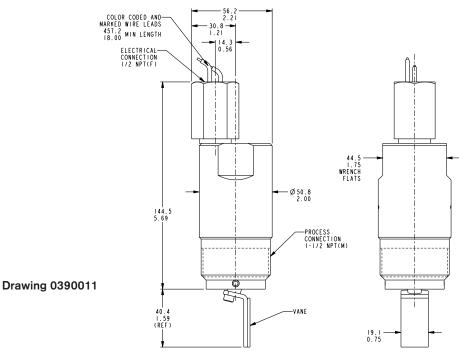
Shipping Weight Approximately 6 lbs. (3 kg)

Agency Listing CSA Certified (US & Canada) and

> ANSI/ISA 12.27.01, ATEX and IEC approved (optional). See page 2.

*Agency certifications may affect ratings. See Accessories for details.





Design and specifications are subject to change without notice.

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How to Order

Model Number System

1520 - B - F - 5A - C - W9 - EF - NC9A

	Switch	Mechanisms	3
Amperages based	on resistive lo	oads	
General Purpose	SPST	0.9A @ 110 VAC Max 3A @ 28 VDC Max 3 Watt Minimum	W9
General Purpose	SPDT	0.9A @ 110 VAC Max 3A @ 28 VDC Max 3 Watt Minimum	W1
Low Power	SPST	25 Watts Max	L9
Low Power	SPDT	25 Watts Max	L1

Process	Connection	ns 2	
Threaded:	1 1/2" NPT(M) 5A	
	2" NPT(M) 2A	
Flanged: (Available May affect process pressure rating.	with 316SS body only s 2 1/2" 150 300 600	0# 7C 0# 7D	
	3" 150 300 600	O# 3D	
	4" 150 300		
	6" 150 300		
Body Ma	terial 1		
303SS (S	Standard) B		
316 Stainl	ess Steel C		
	1520 B	F 5A	С

IC9	Α	4	Optional Accessories
3	1	CK*	Insert accessory designator(s) as needed ATEX and IECEx dual approved. Ex d IIC Ga/Gb T4 (-40°C < Ta < +90°C), T5 (-40°C < Ta < +75°C) and Ex ia IIC T3 (-40°C < Ta < +125°C)
		CL*	ATEX and IECEx approved. Ex ia IIC T3 (-40°C < Ta < +125°C)
W9		CR	3/4" NPT(F) conduit connection
W1		CS*	CSA Certified. Class 1, Group A, B, C, D; Divisions 1 & 2. For relay option; Class 1, Group C & D, Divisions 1 & 2. Single seal ambient & process temperatures -40°C to +125°C Additional seal not required.
L9 L1		НТ	316 stainless steel terminal block housing. CSA Certified Class I, Groups A, B, C & D; Class II, Groups E, F, & G, Class III; Division 1 (NEMA 4X)
		NC	NACE construction - MR 01-75 / ISO 15156 2003. Available only with 316SS materials of construction
		RB**	24 VDC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Divisions 1 & 2.
		RC**	120 VAC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Divisions 1 & 2
		RR	Tag, stainless steel. (Attached with stainless steel wire to housing. Stamped with customer specified tagging information. 2 lines, 18 characters and spaces per line.)
			Stainless steel nameplate permanently attached to housing. Stamped with customer specified tagging information.
			*CK, CL or CS option is required on all flange mounted units. **Not available with L9 or L1 switch options.
W9	EF	NC	9A → Model Number

281-582-9500

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Certificates

	Certificates	C1	СЗ	C4	C 5	C6	C7	B5	В6	В7
	Calibration	•						•	•	•
	Inspection Report		•					•	•	•
1520 Flow Switch	Compliance / Conformance			•						•
	Dielectric Test				•			•		
	Insulation Resistance					•		•	•	
	QA Test Report						•			

Replacement Parts

Part Number	Description
3130 - 106	W9 - SPST Hermetically Sealed Switch Capsule
3130 - 245	W1 - SPDT Hermetically Sealed Switch Capsule
3130 - 107	L9 - SPST Hermetically Sealed Switch Capsule
3130 - 244	L1 - SPDT Hermetically Sealed Switch Capsule
3130 - 118	316SS Vane Assembly
3130 - 403	Actuator Arm Replacement Kit (1-1/2" NPT and flanged process connections)
3130 - 404	Actuator Arm Replacement Kit (2" NPT process connection)

Limited Warranty

Cameron agrees to repair or replace any switch found to be defective in material or workmanship within five years from date of shipment. The limited warranty is valid only if the switch was installed in accordance with published factory installation instructions, operated within the design limitations stated on the nameplate, and returned to the factory for inspection, freight prepaid, within the warranty period. Contact the factory for return authorization. No claim for labor or consequential damages will be allowed.



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Learn more about Cameron's measurement solutions at: www.c-a-m.com/measurement

