

Compact Pressure Switch

Series CSM

Features

- ▶ Compact size
- ▶ Multiple electrical connections
- ▶ SPDT or SPST
- ▶ Factory preset or field adjustable
- ▶ 30-120 psi to 2000-5000 psi

Applications

- ▶ Hydraulic power units
- ▶ General industrial applications
- ▶ Lubrication systems



General Specifications*

Accuracy:	+/- 3% of full set point range
Switch:	SPDT or SPST
Wetted Parts:	Nitrile (Optional Viton & EPDM) Diaphragm; Zinc plated steel fitting
Electrical Connection:	Free Leads – 18" DIN #43650A 1/4 Spades Deutsch 2 pins DT04-2P Deutsch 2 pins DT04-3P Weatherpak 2 pins WPT-2 Weatherpak 3 pins WPT-3
Enclosure Ratings:	DIN 43650A-IP65, Terminals – IP00
Approvals:	cURus UL recognized components evaluated to industrial control equipment standards UL508 & Canadian standard CSA C22.2, No. 14

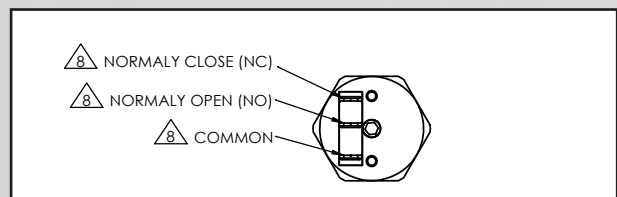
Process Connection:	1/4" NPT 1/8" NPT 7/16-20 SAE G 1/4 9/16-18 SAE
Temperature Range:	-20°F to 176°F (-29°C to 80°C) UL max. ambient temperature 131°F (55°C)
Adjustment Instructions: Pressure Setpoint:	Turn 3/32" allen wrench adjustment screw clockwise to increase pressure; counterclockwise to decrease pressure
Shipping Weight:	0.41 lbs (0.19 Kg.)

* See product configurator for additional options.

Wiring Code

CONTACTS	FREE LEADS	DIN CONNECTION (PIN #)	1/4 SPADES	DEUTSCH (RECEPTACLE)	WEATHER PACK (FEMALE)*
COMMON	BLACK	1		PIN A	PIN A
NORMALLY CLOSED	BLUE	2		PIN C	PIN C
NORMALLY OPEN	RED	3		PIN B	PIN B

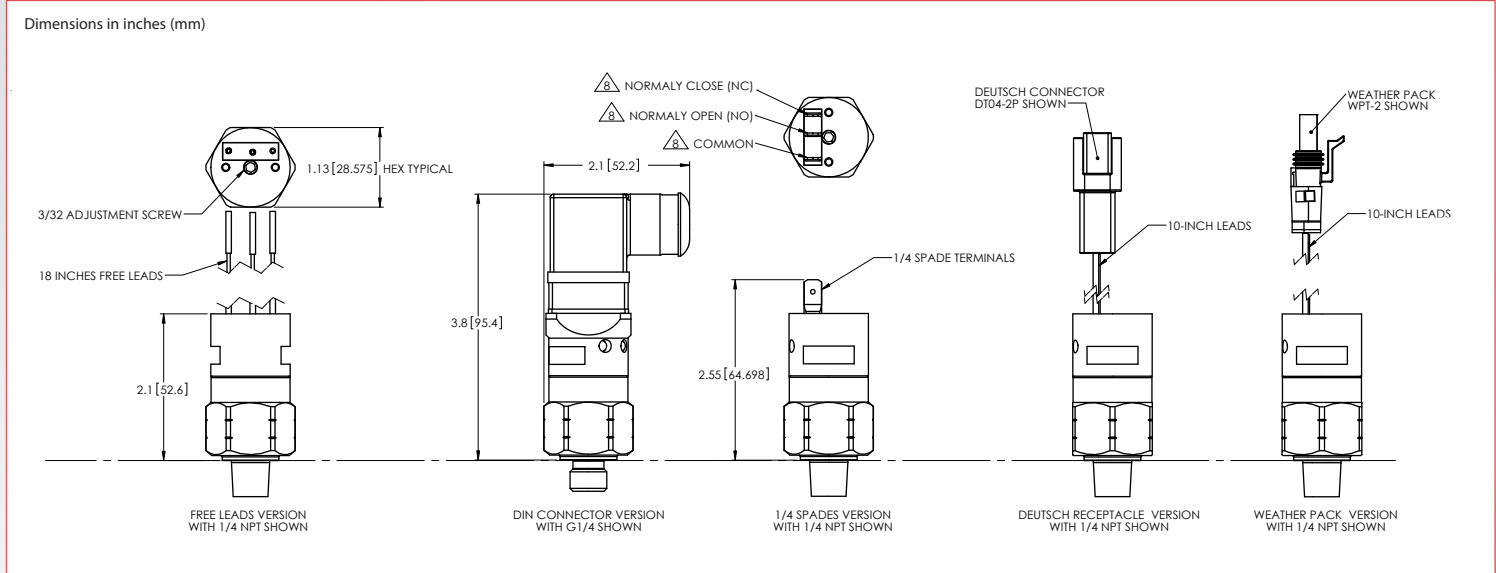
* Not UL rated



Barksdale®
CONTROL PRODUCTS

CRANE Barksdale, Inc./Barksdale GmbH
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Technical Drawing



Product Configurator

Example CSM1 4 -2 1 -2 1 B

Base Model/Basic Configuration

CSM1	Field Adjustable
CSM2	Factory Set

Pressure Range

Range	Adjustable Range	Approx. Deadband (Actuation Value)	Max. Proof Pressure
	psi (bar)	psi (bar)	psi (bar)
4	30 – 120 (2 – 8)	9 – 20 (.6 – 1.4)	9000 (620)
5	75 – 300 (5 – 21)	12 – 36 (.8 – 2.5)	9000 (620)
6	300 – 1200 (21 – 83)	69 – 180 (4.7 – 12.4)	9000 (620)
7	1000 – 3000 (69 – 207)	180 – 360 (12.4 – 24.8)	9000 (620)
8	2000 – 5000 (138 – 345)	200 – 400 (13.6 – 27.6)	9000 (620)
Blank	Factory Set Only (CSM2)		

Limit Switch

-1	SPST, N.O.
-2	SPST, N.C.
-3	SPDT

Current Rating

1	5A @ 125 VAC
2	10A @ 125 VAC, 6A @ 250 VAC
3*	20 mA @ 12 VDC

Notes:

- ¹ SPST Models only
- ² SPDT Models only
- ³ Only available in Free Lead models
- * Not UL rated

Other Options

-XXXR	Set point (not required for field adjustable) Rising Pressure (PSIG)
-XXXF	Set point (not required for field adjustable) Falling Pressure (PSIG)
-6 ³	IP67

Diaphragm Material

B	Buna-N
V	Viton
E	EPDM

Electrical Connection

1	Free Leads – 18"
2 ²	DIN #43650A
3	1/4 Spades
4 ¹	Leads w/ Deutsch 2 pins DT04-2P
5 ²	Leads w/ Deutsch 3 pins DT04-3P
6 ^{1*}	Leads w/ Weatherpak 2 pins WPT-2
7 ^{2*}	Leads w/ Weatherpak 3 pins WPT-3

Process Fitting Size

-1	1/4" NPT
-2	1/8" NPT
-3	7/16-20 SAE
-4	G 1/4 (No O-ring)
-5	9/16-18 SAE

Depending on the rate of change in pressure for certain applications, an intermittent condition may occur across the set point.

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