

## 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\*

<b>Accuracy:</b>	+/- 3% of full set point range
<b>Switch:</b>	SPDT or SPST
<b>Wetted Parts:</b>	Nitrile (Optional Viton & EPDM) Diaphragm; Zinc plated steel fitting
<b>Electrical Connection:</b>	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
<b>Enclosure Ratings:</b>	DIN 43650A-IP65, Terminals – IP00
<b>Approvals:</b>	cURus UL recognized components evaluated to industrial control equipment standards UL508 & Canadian standard CSA C22.2, No. 14

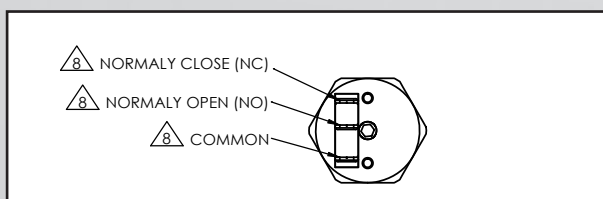
<b>Process Connection:</b>	1/4" NPT 1/8" NPT 7/16-20 SAE G 1/4 9/16-18 SAE
<b>Temperature Range:</b>	-20°F to 176°F (-29°C to 80°C) UL max. ambient temperature 131°F (55°C)
<b>Adjustment Instructions:</b> Pressure Setpoint:	Turn 3/32" allen wrench adjustment screw clockwise to increase pressure; counterclockwise to decrease pressure
<b>Shipping Weight:</b>	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	△ <sub>8</sub>	PIN A	PIN A
NORMALLY CLOSED	BLUE	2	△ <sub>8</sub>	PIN C	PIN C
NORMALLY OPEN	RED	3	△ <sub>8</sub>	PIN B	PIN B

\* Not UL rated



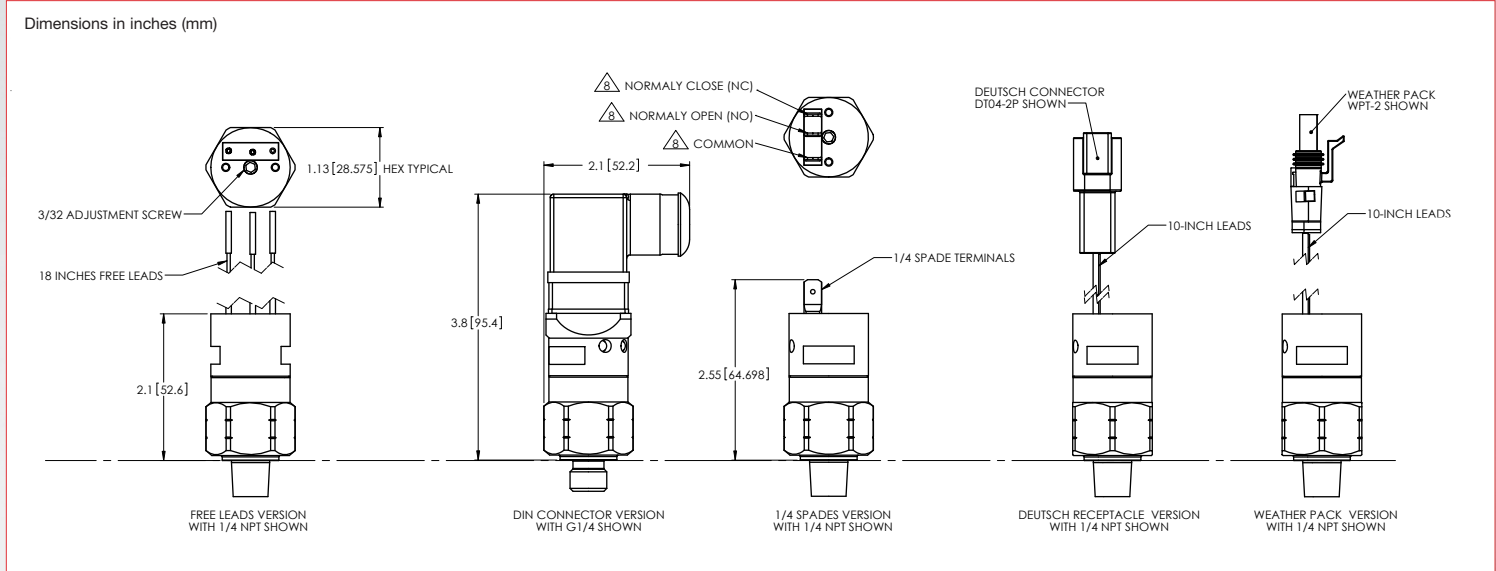
**Barksdale**  
CONTROL PRODUCTS

CRANE Barksdale, Inc./Barksdale GmbH  
A Subsidiary of Crane Co.

# Compact Pressure Switch

**Series CSM**

## 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:

- <sup>1</sup> SPST Models only
- <sup>2</sup> SPDT Models only
- \* Not UL rated

### Set Point

-XXX	Set point (not required for field adjustable)
R	Rising Pressure (PSIG)
F	Falling Pressure (PSIG)

### Diaphragm Material

B	Buna-N
V	Viton
E	EPDM

### Electrical Connection

1	Free Leads - 18"
2 <sup>2</sup>	DIN #43650A
3	1/4 Spades
4 <sup>1</sup>	Leads w/ Deutsch 2 pins DT04-2P
5 <sup>2</sup>	Leads w/ Deutsch 3 pins DT04-3P
6 <sup>1*</sup>	Leads w/ Weatherpak 2 pins WPT-2
7 <sup>2*</sup>	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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