

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 |

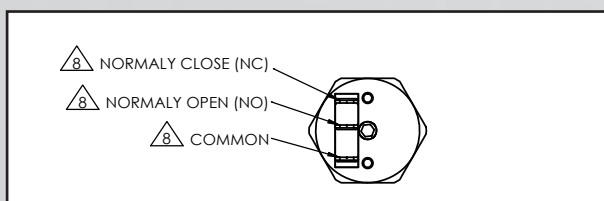
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|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Process Connection: | 1/4" NPT 1/8" NPT 7/16-20 SAE G 1/4 9/16-18 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 | △8 | PIN A | PIN A |
| NORMALLY CLOSED | BLUE | 2 | △8 | PIN C | PIN C |
| NORMALLY OPEN | RED | 3 | △8 | PIN B | PIN B |

* Not UL rated



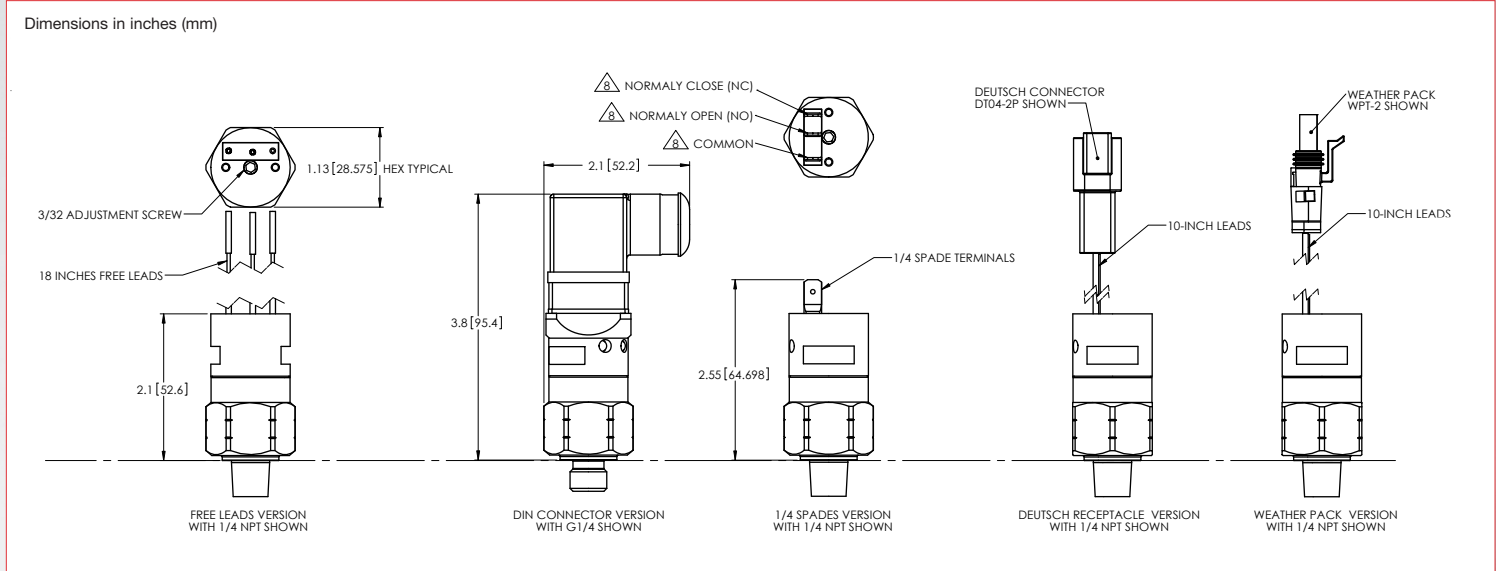
Barksdale
CONTROL PRODUCTS

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:

- ¹ SPST Models only
- ² 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 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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