Compact Pressure Switch

Series CSP

Features

▶ Compact size
▶ Multiple electrical connections
▶ SPDT or SPST
▶ Factory preset or field adjustable
▶ 3-7 psi to 25-150 psi

Applications

▶ Hydraulic power units
▶ General industrial applications
▶ Machine tools
▶ Pneumatic systems

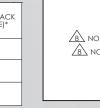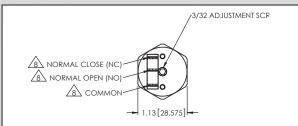## General Specifications*

Accuracy:	+/- 3% of full set point range
Switch:	SPDT or SPST
Wetted Parts:	Nitrile (Optional Viton & EPDM) Diaphragm; Brass 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:	0.26 lbs (0.12 Kg.)

* See product configurator for additional options.

Wiring Code

CONTACTS	FREE LEADS	DIN CONNECTION	1/4 SPADE TERMINALS	DEUTSCH (PLUG)	WEATHER PACK (FEMALE)*
COMMON	BLACK	PIN 1	⚠8	PIN A	PIN A
NORMALLY OPEN	RED	PIN 3	⚠8	PIN B	PIN B
NORMALLY CLOSED	BLUE	PIN 2	⚠8	PIN C	PIN C

* Not UL rated

3/32 ADJUSTMENT SCR

⚠8 NORMAL CLOSE (NC)
⚠8 NORMAL OPEN (NO)
⚠8 COMMON

1.13 [28.575]

Barksdale®
CONTROL PRODUCTS

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

Technical Drawing

Dimensions in inches (mm)

3/32 ADJUSTMENT SCREW

⚠8 NORMAL CLOSE (NC)
⚠8 NORMAL OPEN (NO)
⚠8 COMMON

1.13 [28.575]

DEUTSCH CONNECTOR DT04-2P SHOWN

WEATHER PACK WPT-2 SHOWN

18 INCHES LONG

2.0 [51.5]

3.40 [86.346]

10 INCH LEADS

10 INCH LEADS

1.7 [42.7]

.24 [6.206]

.48 [12.12]

1.68 [42.67]

FREE LEADS VERSION WITH 1/4 NPT SHOWN

DIN CONNECTOR VERSION WITH G1/4 SHOWN

1/4 SPADE VERSION WITH 1/4 NPT SHOW

DEUTSCH RECEPTACLE VERSION WITH 1/4 NPT SHOW

WEATHER PACK VERSION WITH 1/4 NPT SHOW

Product Configurator

| Example | CSP1 | 1 | -2 | 1 | -2 | 1 | B | |

Base Model/Basic Configuration

| CSP1 | Field Adjustable |
| CSP2 | Factory Set |

Pressure Range

Range	Adjustable Range	Approx. Deadband (Actuation Value)	Max. Proof Pressure
	psi (bar)	psi (bar)	psi (bar)
1	3 – 7 (.21 - .48)	.5 – 1.2 (.03 - .08)	350 (24)
2	5 – 30 (.32 – 2.07)	1 – 2.5 (.07 - .17)	350 (24)
3	25 – 150 (1.72 – 10.3)	2 – 10 (.14 - .69)	350 (24)
Blank	Factory Set Only (CSP2)		

Limit Switch

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

Current Rating

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

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

Other Options

-XXXR	Set point (not required for field adjustable) Rising Pressure (PSIG)
-XXXF	Set point (not required for field adjustable) Rising 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

Notes:
[1] SPST Models only
[2] SPDT Models only
[3] Only available in Free Lead models
* Not UL rated