CLARK SOLUTIONS

XM Pressure Switch

Adjustable Set Point Range, 4-4000 PSI

DESCRIPTION

Model XM is a simple, reliable low cost pressure switch that uses a spring loaded diaphragm as the sensing element. A Buna-N diaphragm is standard. XM is a popular choice for mobile hydraulic applications.

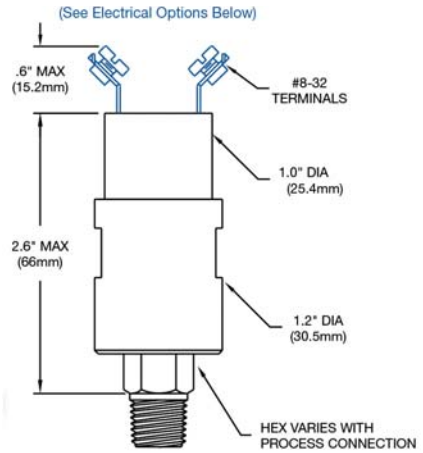
In operation, the diaphragm actuates a snap action electrical switch that insures a positive, instantaneous electrical contact under all operating conditions.

SPECIFICATIONS

RoHS

Set Point Range: 4 – 4000 PSI (4.3 – 275 Bar)
Set Point Tolerance: ±5 PSI or 5% (.34 Bar)
Maximum Operating Pressure: 5000 PSI (344 Bar)
Proof Pressure: 15000 PSI (1034 Bar)
Differential: 8 – 16%
Current Rating: 3 A @ 125 VAC
2 A @ 30 VDC (Resistive)
Media Connection: Zinc Plated Steel (Standard); Optional: Aluminum, Nickel Plating, Brass, 303 SS, 316 SS
Circuit Form: SPST-NO or SPST-NC or SPDT
Electrical Connection: See Order Chart Below for Options
Diaphragm Material: Buna N
Cycle Life: 1 Million Cycles
Housing: NEMA 4, 13

DIMENSIONS INCHES (MM)



ORDERING INFORMATION

ORDER NUMBER (SEE TABLE)
A-BCD-EFGH

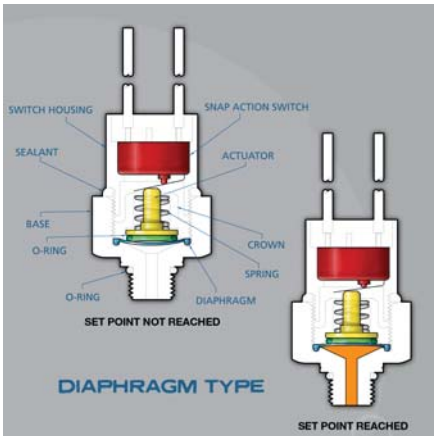
EXAMPLE-XM-S1C-4150J-4WL

A Model	B Connection Material	C Media Connection	D Circuit Form	E Fixed Set Point	F Set Point Direction	G Wire Length (Where Applicable)	H *Electrical Options
XM	A= Aluminum B= Brass N= Nickel Plating P= Delrin **S= Zinc Plated Steel(Standard)** T= 303 Stainless Steel U= 316 Stainless Steel	1= 1/4" NPT Male 2= 1/8" NPT Male 4= 7/16" SAE 37° Flare (-4) 6= 7/16" SAE O-Ring (-4) 11= 9/16" SAE O-Ring (-6) 17= 1/4" BSPP Male (G1/4) 47= 1/4" – 19BSPP Female (G1/4)	A= SPST-NO B= SPST-NC C= SPDT	Specify 40--4000 PSI	R= Rising F= Falling	-= No Wire 1= 3" Wire Length 2= 6" Wire Length 3= 12" Wire Length 4= 18" Wire Length 5= 24" Wire Length 6= 36" Wire Length 7= 48" Wire Length 8= 60" Wire Length 9= Special Wire Length	**- = Screw Terminals (Standard)** WL= Wire Leads WP= Weather Pack HR= DIN43650A Connector MP= Metri-Pack AT= 10 A @ 125/250 VAC 5 A @ 30 VDC AU= Gold Plate/Alloy for low currents *See next page for more choices

The snap-action design will maintain its state with contacts either open or closed, until a precise set point is reached when it will snap over center to a new state. It will remain in that state until a distinct change towards its original setting is sensed, at which time it will snap back to its original state.

The design's snap-action feature prevents contact intermittency near its switch point, which is common in creeper designs. As system pressures fluctuate, our switches inherent differential prevents searching. Only the highest quality snap-action switches are used. The switches are UL, CSA, and military approved.

The elastomer diaphragm, which moves a precise .040 of an inch, ensures accurate, instantaneous contact under all operating conditions. While nitrile is preferred for general use, other materials are available.



A COMPREHENSIVE SELECTION OF ELECTRICAL CONNECTIONS

We see designs used in all types of applications imaginable, so we want to make sure you have a wide choice of electrical connections.

We offer a growing selection of connections, and if you want something else, just ask us for it.

HF DIN43650A 1/2" Conduit (Plug & Receptacle)

HH DIN43650A (Plug Only)

HR DIN43650A Strain Relief (Plug & Receptacle)

HP 9.4mm DIN (Plug Only)

HM 9.4mm DIN (Plug & Receptacle)

MP Metri-Pack Female 280 Series Sealed

NP Metri-Pack Male 280 Series Sealed

CP Metri-Pack Female 150 Series Sealed

DP Metri-Pack Male 150 Series Sealed

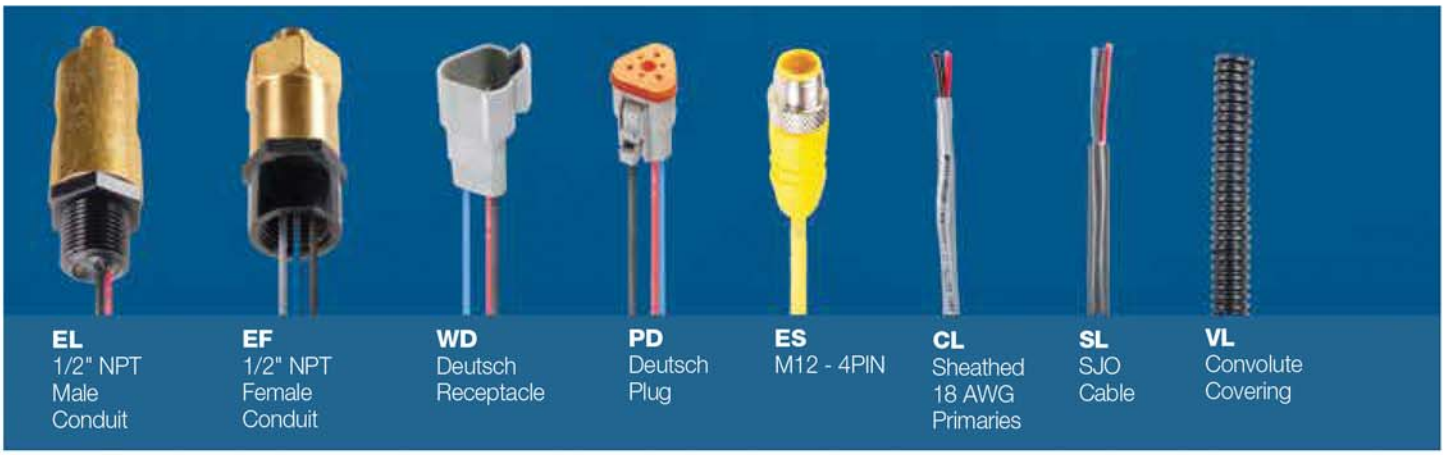
PP Boot (Military Connector)

QC 1/4" Male Spade Quick Connect

WL Wire Leads

WP Weather Pack (Female)

TP Weather Pack (Male)



EL 1/2" NPT Male Conduit

EF 1/2" NPT Female Conduit

WD Deutsch Receptacle

PD Deutsch Plug

ES M12 - 4PIN

CL Sheathed 18 AWG Primaries

SL SJO Cable

VL Convolute Covering

Color Code: **Black** – Common **Red** – Normally Open **Blue** – Normally Closed
Pin Assignments: **A** – Normally Open **B** – Common **C** – Normally Closed
DIN Connector Pin Assignments: **#1** – Common **#2** – Normally Closed **#3** – Normally Open **#4** – Not Used
M12 Connector Pin Assignments: **#1** – Common **#2** – Not Used **#3** – Normally Open **#4** – Normally Closed

Clark Solutions • 10 Brent Drive • Hudson, MA 01749 • Tel. 978 / 568 3400 • Fax 978 / 568 0060