CLARK SOLUTIONS

VM Vacuum Switch

Set Point Range, 4-29" Hg, Factory Preset

DESCRIPTION

Model VM is a simple, reliable low cost Vacuum switch that uses a spring loaded long-life elastomeric diaphragm as the sensing element. Model VM can be provided with a factory calibrated set-point or can be field adjustable.

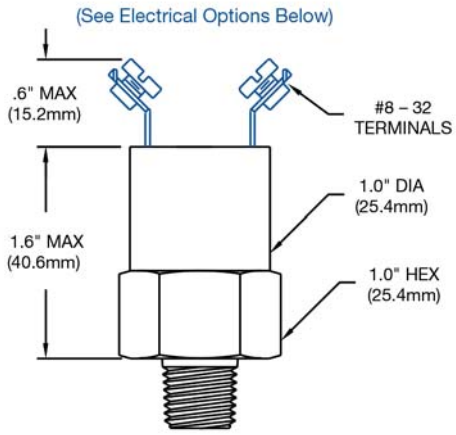
In operation, the diaphragm actuates a snap action electrical switch that insures a positive, instantaneous electrical contact under all operating conditions.

RoHS

SPECIFICATIONS

Set Point Range- 4-30" Hg (102-762 mm Hg)
Set Point Tolerance- ±1" Hg or 5% (25 mm Hg)
Max Operating pressure- 250 PSI (17 bar)
Switch Deadband (differential)- 20-40%
Current Rating-
Media Connection- Standard: Brass (Optional: Aluminum, Nickel Plating, Delrin, 303 SS, 316 SS)
Circuit Form- SPST-NO, SPST-NC, SPDT
Electrical Connections- See Order Table Below
Diaphragm- Buna-N
Cycle Life- 1 Million Cycles
Housing: NEMA 4, 13

DIMENSIONS (MM)



ORDERING INFORMATION

ORDER NUMBER (SEE TABLE)
A-BCD-EFG

EXAMPLE- LM-B1C-150R-4WL

A Model	B Connection Material	C Media Connection	D Circuit Form	E Fixed Set Point	F Set Point Direction	G *Electrical Options
VM	A= Aluminum **B= Brass (Standard)** N= Nickel Plating P= Delrin S= Zinc Plated Steel T= 303 Stainless Steel U= 316 Stainless Steel	1= 1/4" NPT Male 2= 1/8" NPT Male 11= 9/16" SAE O-Ring (-6) 17= 1/4" BSPP Male (G1/4)	A SPST-NO B SPST-NC C SPDT	Specify 4"-29" Hg	R= Rising F= Falling	**- = 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

More about changing switch state.....
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

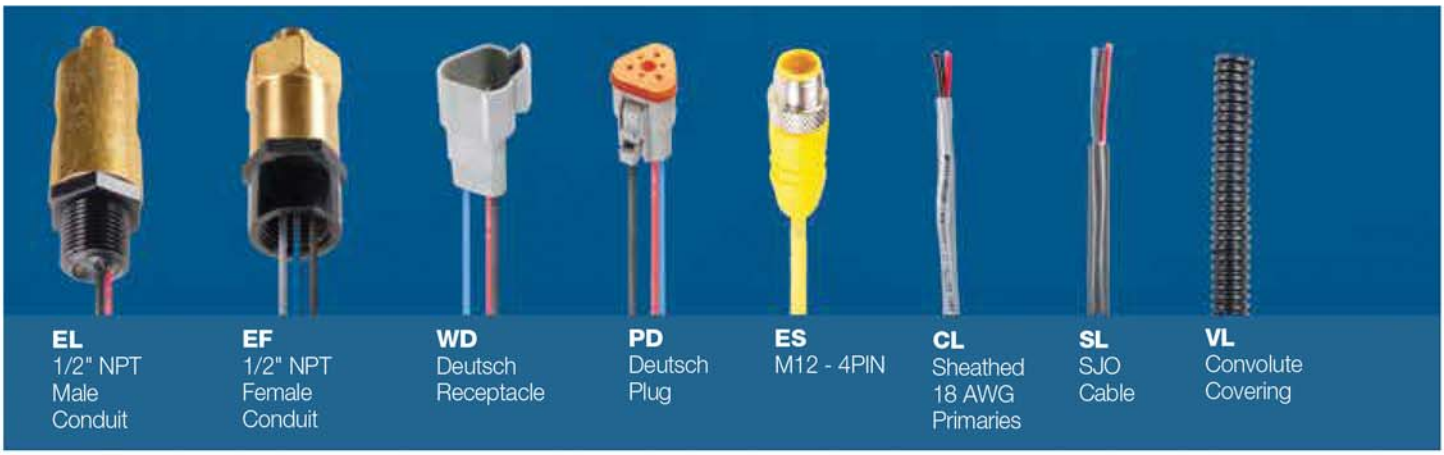
PP Boot (Military Connector)

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

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