EP Magnetic Switch

Features

- CE Approved
- Non Contact Switching
- N.O., N.C. & SPDT Industrial Reed Switches
- Momentary & Bistable Versions Available
- No Switching Power Needed (Drives KAL Series without external power)
- Long Life (Estimated 3 Billion Operations)

Switch Operations:

N.O. (third letter "S") (Closing Switch)

If a permanent magnet (a north pole [red] or a south pole [blue] is placed near the actuating zone of the magnetic switch, the contact tongues inside the glass sealed gas protected area spring quickly to close position. When field is removed switch opens again.

N.C. (third letter "O") (Opening Switch)

A contact tongue of a switch is magnetized by an internal magnet with the south pole field. If a south pole (blue) actuating magnet is placed near the magnetic switch, both contact tongues are magnetized with the same polarity. Like poles repel each other and the magnetic switch contact opens. When field is removed switch closes again.

SPDT (third letter "U") (Change over Switch)

A change over contact has one moveable (COMM.) and two static contact tongues (N.C. and N.O.) When there is no magnetic field, contact tongue rests on the N.C. contact by means of its elastic force. When an actuating magnet is placed near it (north pole [red] or south pole [blue]) the moveable contact tongue switches. The NC contact opens and the NO contact springs to close position. When field is removed, moveable contact returns to rest position.

Bistable (fourth letter "M"*)

By means of an internal polarizing magnet, a contact tongue is magnetized with a south pole field in such a way that when north pole magnet (red) is placed in its proximity the magnetic switch contact changes state. The switch remains in this state until a south pole magnet (blue) is placed in its proximity.

Operating Temperature: 14° to 176°F (-10° to 80°C) Cable

Length: 39.4" (1 M)

Color:

Jacket: Gray or Beige 0.22" (5.6mm) diameter

Inside: 19 ga.

N.O.: Brown & Blue N.C.: Black & Blue

SPDT: Brn (comm), Blue (N.C.), Blk (N.O.)

NOTE: Some cables may have extra green/yellow wire connected to metal case.

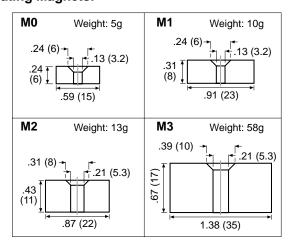
Electronic Counting With No Outside Power:

KAL-D (Totalizer) KATSPS (Preset Counter)

12345678

MRS10 M1 Blue (Magnetic Switch)

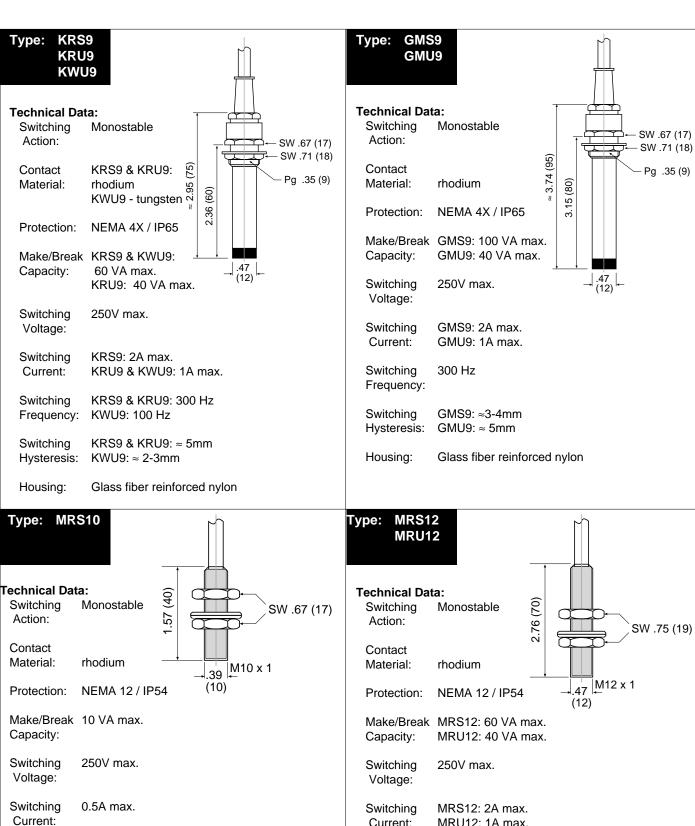
Actuating Magnets:

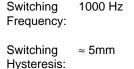


Switch & Magnet Spacing:

Mag. Switch	<u>Magnets</u>			
	MO	M1	M2	М3
KRS9	≈3mm	≈6mm	≈10mm	≈27mm
KRU9	≈5mm	≈9mm	≈14mm	≈30mm
KWU9	≈4mm	≈7mm	≈11mm	≈26mm
GMS9	≈3mm	≈6mm	≈10mm	≈22mm
GMU9	≈3mm	≈5mm	≈8mm	≈19mm
MRS10	≈4mm	≈7mm	≈11mm	≈28mm
MRS12	≈4mm	≈7mm	≈11mm	≈27mm
MRU12	≈3mm	≈6mm	≈10mm	≈28mm
DRS	≈5mm	≈7mm	≈11mm	≈27mm
DRU	≈3mm	≈5mm	≈9mm	≈17mm
DRSM	≈14mm	≈20mm	≈28mm	≈58mm
DRUM	≈8mm	≈15mm	≈20mm	≈45mm
FLS-AL	≈5mm	≈7mm	≈11mm	≈27mm
FLU-AL	≈3mm	≈5mm	≈9mm	≈17mm
FLSM-AL	≈14mm	≈20mm	≈28mm	≈55mm
FLUM-AL	≈8mm	≈15mm	≈20mm	≈45mm
FWU-AL	≈5mm	≈8mm	≈13mm	≈30mm
FGMS-AL	≈3mm	≈5mm	≈9mm	≈21mm

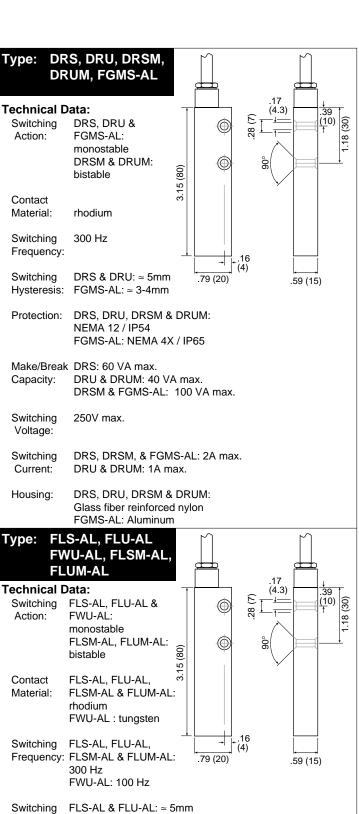
NOTE: To convert from mm to inches use the following: $mm \div 25.4 = inches$





Housing: **Brass**

Current: MRU12: 1A max. Switching 300 Hz Frequency: Switching ≈ 5mm Hysteresis: Housing: **Brass**



KRS9 KRU9

How To Order:

Actuating Magnets:

MO (specify RED or BLUE) M1 (specify RED or BLUE) M2 (specify RED or BLUE) M3 (specify RED or BLUE)

> NOTE: RED Magnets are North; BLUE Magnets are South

Magnetic Switches:

KWU9 GMS9 GMU9 MRS10 MRS12 MRU12 DRS DRU DRSM **DRUM** FLS - AL FLU - AL FLSM - AL FLUM-AL FWU-AL FGMS-AL

Other Switches Available (special order):

GMSM16 **GMUM 16 GMS18 GMUM 18** MRO12 **TRS18** TROM 18 **TRSM 18** KRS16-EX SRU MRS9 MRS107 KRS9-1 DRU1-53G344 EVU-L100-SV-1 **FSMS** GA12 GMU18 MRS10 W/12FT CABLE FLU **FLS**

Switching 250V max. Voltage:

Hysteresis: FWU-AL: ≈ 2-3mm

Protection: NEMA 4X / IP65

Switching FLS-AL & FLSM-AL: 2A max.

Make/BreakFLU-AL & FLUM-AL: 40 VA max. Capacity: FLS-AL, FWU-AL: 60 VA max.

FLSM: 100 VA max.

Current: FLU-AL, FLUM-AL & FWU-AL: 1A max.

Housing: