

AVID K-SWITCH POSITION MONITOR
FLAMEPROOF

The K-Switch is a flameproof quarter turn position indicator approved for use in hazardous areas



GENERAL APPLICATION

Provides a 'flameproof' enclosure for position indication and circuit switching in hazardous areas.

The aluminum enclosure and corrosion resistant coatings make the K-Switch an ideal choice to be used in arduous environments.

TECHNICAL DATA

Temperature range: -25°C to 85°C /
-13°F to 185°F
-20°C to 55°C /
-4°F to 131°F (certified)

Agency approvals

Area classification (ATEX/IEC)
Ex II 2 G D
Ex d IIC T6 Gb
Ex tD A21 IP6X
Ex tb III CT 85°C Db

Enclosure protection

IEC: IP66/67
ANSI/NEMA 250: Type 4, 4X
Enclosure: Aluminum

FEATURES

- The position indicator features a high integrity, easily removable enclosure cover. The threaded aluminium cover and housing are iridited and coated with a black polyester to provide maximum protection against severe environments.
- Vibration resistant EasiFix Cams provide for easy switch adjustments.
- The enclosed mechanical or proximity switches are prewired to the terminal strip for ease of field wiring connection.
- Dual ¾" NPT conduit entries.
- ModMount mounting pattern is suitable for direct mounting on Keystone or Premiair/MRP actuators.
- The K-Switch design incorporates an adjustable easy to read, reflective indicator which provides positive visual position indication at distances up to 30 m (100 ft).
- Easily adaptable to other quarter-turn actuators utilizing the Namur standards.

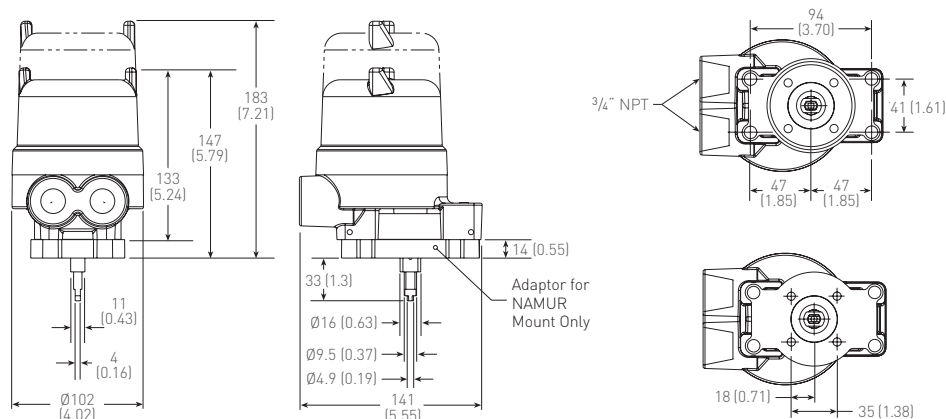
Switches

- 2 or 4 SPDT V3 mechanical switches
- 2 or 4 inductive proximity sensors (NAMUR)
- Two 3-wire DC inductive sensors with LEDs (PNP or NPN)

AVID K-SWITCH POSITION MONITOR

FLAMEPROOF

ENCLOSURE DIMENSIONS



NOTE

Dimension in mm, imperial dimensions (inches) in parenthesis

Technical specifications	
Enclosure material:	Powder coated aluminium
Conduit entries:	Two conduit entries 3/4" NPT
Terminal strip	10/12 points
Temperature range:	-25°C to +85°C / -13°F to +185°F -20°C to +55°C / -4°F to +131°F (certified)
Switch options	Two SPDT V3 mechanical switches Two Inductive proximity sensors NAMUR Two 3-wire DC inductive sensors with LEDS (PNP or NPN)
Switch/Sensor ratings	SPDT V3 mechanical switches
Electrical version	SPDT Form C normally closed
Electrical rating	15 A at 125 or 250 V AC 0.5 A at 125 V DC 0.25 A at 250 V DC
Inductive proximity sensors (NAMUR)	
Nominal voltage	8 V DC
Output load current	≤ 1 mA (cam trigger present) ≥ 3 mA (cam trigger absent) 15 mA maximum
3-Wire DC inductive proximity sensors with LEDS (PNP/NPN)	
Supply voltage	10 - 60 V DC
Output load current	200 mA max
Leakage current	≤ 10uA
Voltage drop	≤ 2 V DC
Current consumption	15 mA



AVID K-SWITCH POSITION MONITOR

FLAMEPROOF

SELECTION GUIDE

Base Model										
KS-	Flameproof position monitor									
Application										
0	Standard									
C	CS Position transmitter									
P	Feedback Potentiometer									
Conduit options										
F	Two ¾" NPT									
Number of switches										
1	1 switch									
2	2 switches									
3	3 switches									
4	4 switches"									
Switch options										
01	V3 SPDT mechanical switch									
02	T SPDT proximity switch									
03	P&F NJ2-V3-N"									
Terminal Strip										
D	10 point									
E	12 point									
Bracket type (mounting style)										
X	Universal mounting studs / imperial and metric SS fittings									
Solenoid										
00	No solenoid fitted									
Special features										
00	No special features									
BH	High cover (required with 4 switches)									
Certification										
A	ATEX certification									
I	IECex certification"									
Revision										
R*	Revision number									
R1	= Model Number KS-0F201DX00-00-AR1									
KS-	0	F	2	01	D	X	00	-00	-A	