

Kinetrol Explosion Proof Limit Switch Box

The Explosion Proof Limit Switch Box offers a wide range of signalling options in a compact corrosion resistant aluminium alloy housing.

Available for close - mounting onto Kinetrol actuators or discrete mounting via a Kinetrol 05 square or industry standard VDI/VDE interface onto any make of rotary actuator. Easy to wire and set up with true industrial robustness.

Internally fitted options include AS interface digital communication and a 4-20mA, 2-wire, modulating angle retransmit circuit. The range of switches and terminal arrangements includes 2 or 4 switches and extra connections - allowing single point termination of wiring for limit switches and solenoid valves. This product is available to mount on Kinetrol models 03 - 60.



ATEX Category 2

Specification

Casing	precision diecast LM24 alloy, anodised & epoxy thermoset powder.
Coupling	zinc plated steel.
Seals	fluoropolymer dynamic seals and NBR static seals.
Weight	1.5 kg / 3.3 lb
Cable Entry Options	M20 x 1.5 or 1/2" 14 NPT conduit entry threads.

Options

- Discrete NAMUR drive for use with VDI/VDE 3845 rotary drive actuators
- Wide range of worldwide explosion proof approvals including IECEX, ATEX & FM (for USA & Canada) - all in one device
- All units protected to IP66 / NEMA 4X / TYPE 4X
- Attractive, functional and part-spherical profile. Robust corrosion resistant, anodised & epoxy painted diecast aluminium alloy housing
- Close - mount to Kinetrol actuator models 03 - 15 for low profile
- Discrete Kinetrol 05 square drive insert for use with Kinetrol actuator models 16 - 60
- 2 or 4 cable entries available to allow back wiring of solenoid valves
- Up to 4 switches available for SPDT, DPDT or multiple circuit operation
- Easy and accurate setting of switching position
- Optional antistatic Clear Cone Monitor available
- Integral angle retransmit circuit options are available
- Integral AS interface bus circuit option reads up to 4 switch inputs and drives up to 2 bus powered solenoids (see Kinetrol ASi Interface Bus Communication data sheet for more information)
- -40° C to +80° C (-40° F to +176° F) ambient operating temperatures (dependent on switch options)
- Positioner options available

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Switch Options

Switch Type 001

2 intrinsically safe 2 wire inductive proximity sensors for 7.5-30V dc, normally closed.

Switch Type 004

2 x 3 wire microswitches for SPDT.

Switch Type 005

2 x 2 wire proximity sensors 20-250 volts AC, normally open.

Switch Type 006

2 x 2 wire proximity sensors 5-60 volts DC, normally open, with Led switch status indicators.

Switch Type 007

4 x 3 wire microswitches for SPDT.

Switch Type 009

2 x 3 wire gold plated contacts intrinsically safe microswitches for SPDT.

Switch Type 00A

4 intrinsically safe 2 wire inductive proximity sensors for 7.5-30V dc, normally closed.

Switch Type 00B

4 x 2 wire proximity sensors 20-250 volts AC, normally open.

Switch Type 00C

4 x 2 wire proximity sensors 5-60 volts DC, normally open, with Led switch status indicators.

Switch Type 00D

4 x 3 wire gold plated contacts intrinsically safe microswitches for SPDT.

Switch Type 00E

2 x 2 wire inductive proximity sensors 20-140 volts AC / 10-40V dc. (Not available on FM Approved Units).

Switch Type 00M

4 x 3 wire inductive proximity sensors 10-30 volts DC, normally open.

Switch Type 00N

2 x 3 wire inductive proximity sensors 10-30 volts DC, normally open.

Switching Operation Conditions

Switch Option	AC	DC	Current	Ambient Temperature Range (see Note 1)	
001/00A	—	8	6 mA	-20°C to +80°C	(-4°F to +176°F)
004/007	250	48	2.4A ac / 1.8 A dc	-40°C to +80°C	(-40°F to +176°F)
005/00B	250	300	100 mA	-25°C to +70°C	(-13°F to +158°F)
006/00C	—	60	100 mA	-20°C to +80°C	(-4°F to +176°F)
009/00D	—	30	100 mA	-40°C to +80°C	(-40°F to +176°F)
00E/00F	140	140	200 mA	-25°C to +80°C	(-13°F to +176°F)
00M/00N	—	30	100 mA	-25°C to +70°C	(-13°F to +158°F)

Note 1 - Dust environments are restricted to a minimum ambient temperature of -20°C (-4°F)

Approvals

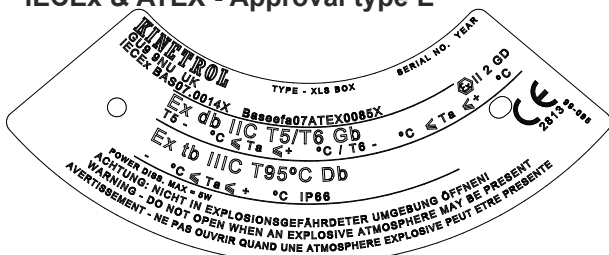
EUROPE/GLOBAL - ATEX / IECEx APPROVAL

Protection concept, Flame Proof 'd'
Group II C/A21, Category 2, Gas & Dust, T5, IP66

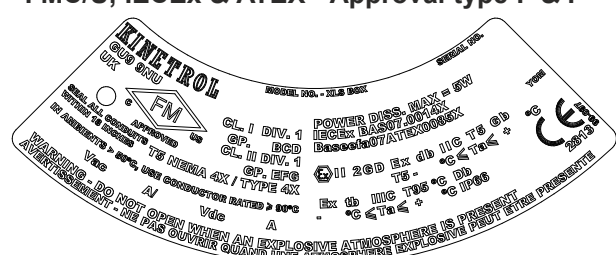
NORTH AMERICAN APPROVAL

Type of protection, Explosion Proof
US: Class I, Division 1, Gas groups B,C,D. Class II, Division 1, Dust groups E,F,G. T5 NEMA 4X.
For Gas group A use order code "P".
CANADA: Class I, Division 1, Gas groups B,C,D. Class II, Division 1, Dust groups E,F,G. T5 TYPE 4X.

IECEx & ATEX - Approval type E

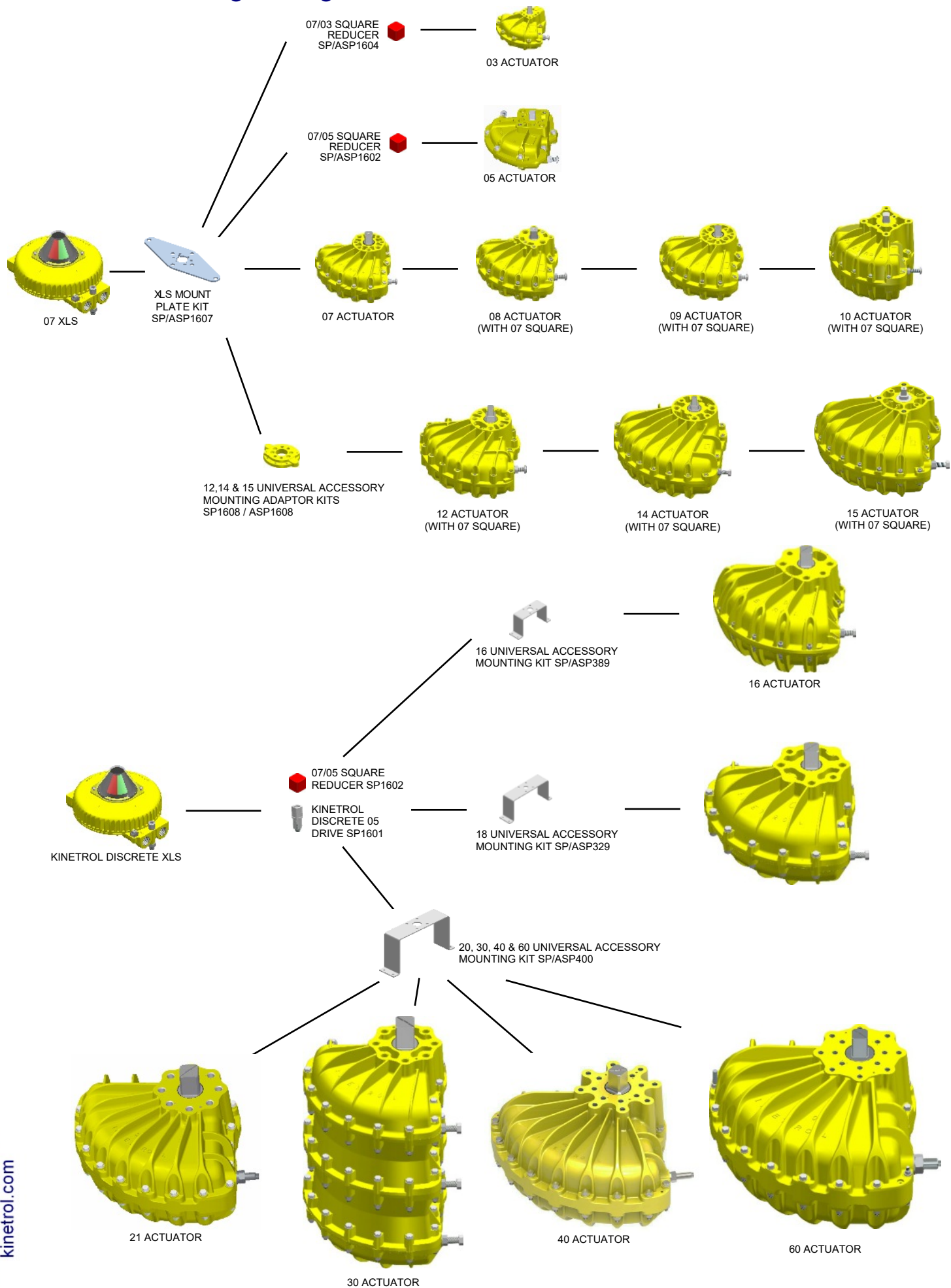


FMC/U, IECEx & ATEX - Approval type F & P



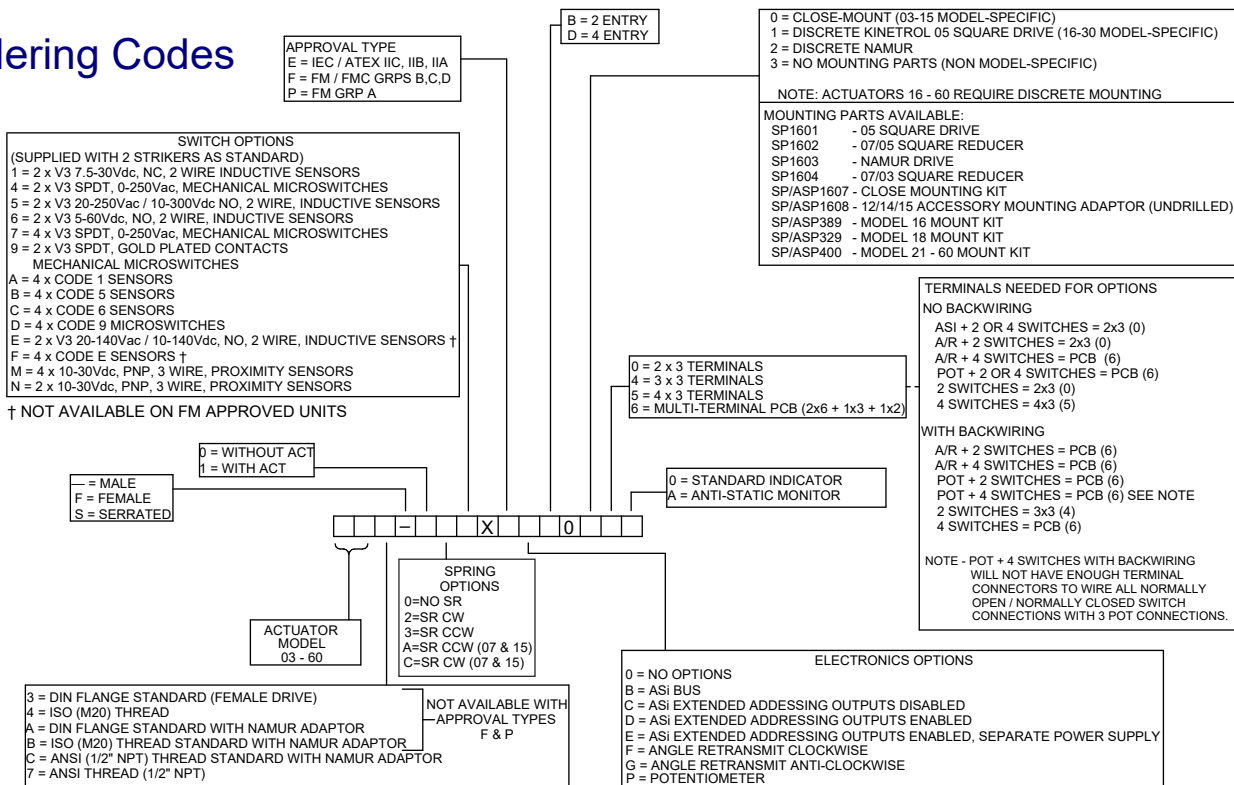
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Modular Mounting Arrangement



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Ordering Codes



Electronics Option B - E *

AS interface options are available with both the two and four entry Kinetrol Explosion Proof Switch Box. Options B to E allow for different extended addressing options. Ambient temperature environment type GAS or DUST -20°C to +80°C (-4°F to 176°F)

* For more details on the Kinetrol AS interface card see Kinetrol Asi Interface Bus Communication data sheet.

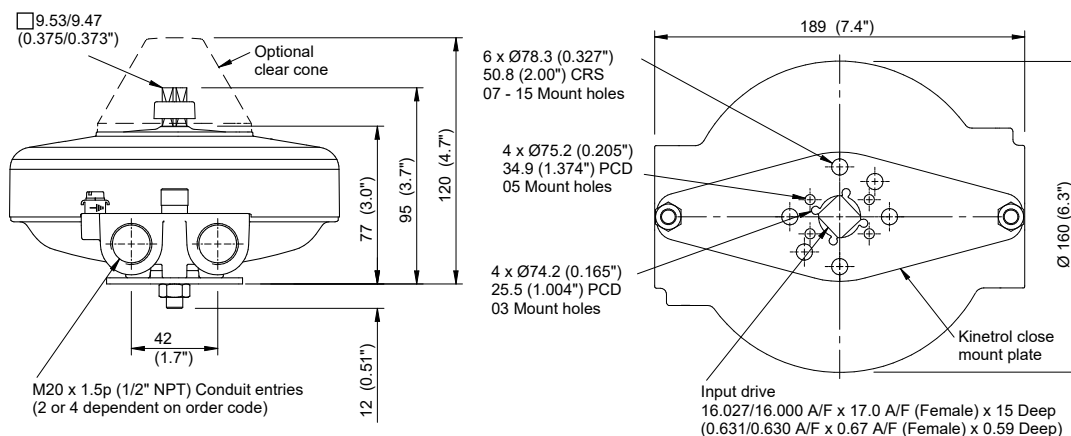
Electronics Option F - G

Two or four entry Switch Box fitted with angle retransmit circuit powered by 14-30v DC supply, the 2 wire loop powered circuit generates a 4-20mA current to feedback position. Ambient temperature environment type GAS -40°C to +80°C (-40°F to 176°F) DUST -20°C to +80°C (-4°F to 176°F)

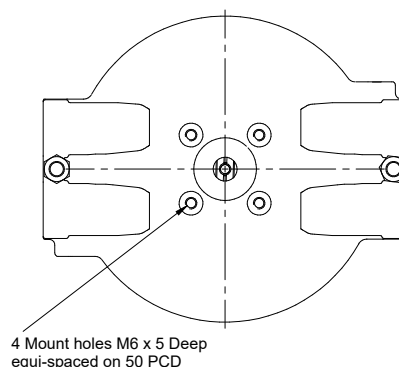
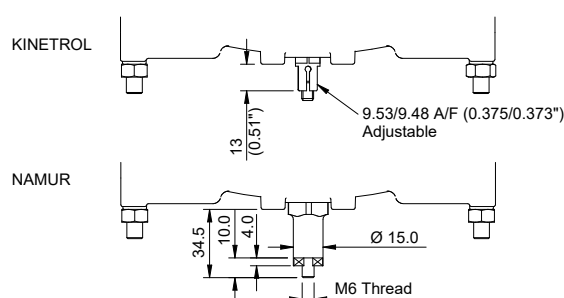
Electronics Option P

Two or four way Switch Box fitted with potentiometer (20K ohms conductive plastic type).

Dimensions



Kinetrol Close Mount Option



Discrete Mount Option