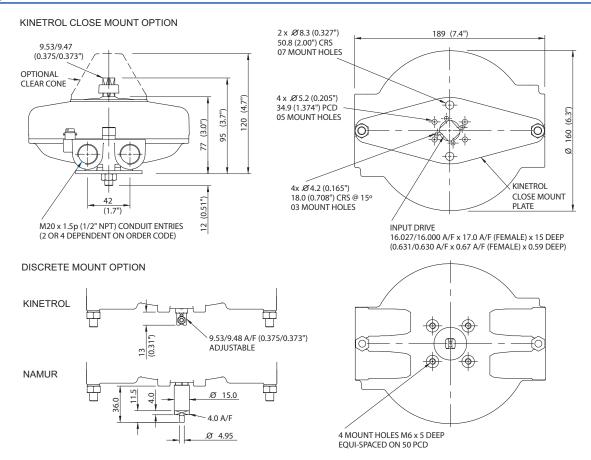
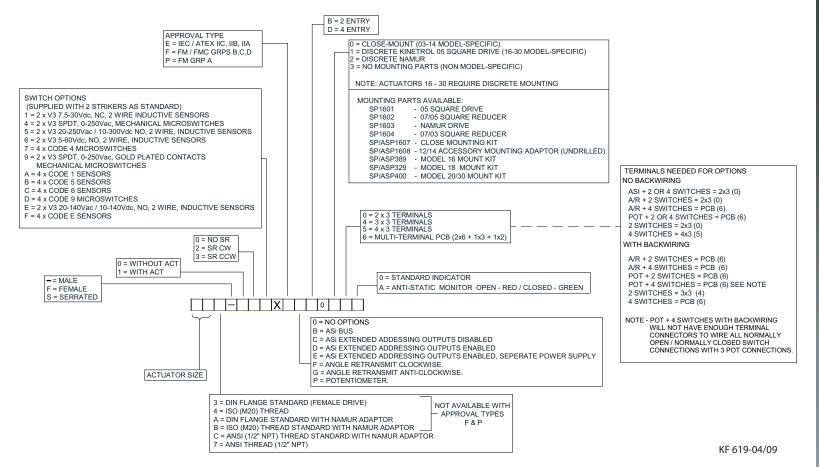
| XLS Brochure2.qxp:Layout 1 22/04/2009 11:59 Page 2

DIMENSIONS



ORDERING CODES



KINETROL

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The Explosion Proof Limit Switch Box

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, IP66 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 - 30.

KEY FEATURES

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 03-14 for low profile.

Discrete Kinetrol 05 square drive insert for use with Kinetrol actuator models 16 -30.

Discrete NAMUR drive for use with VDI/VDE 3845 drive actuators.

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.

-40 °C to +80 °C ambient operating temperatures (dependent on switch options).

3-stop positioner options available (refer to Kinetrol for details).

SPECIFICATION

NORTH AMERICAN APPROVAL

Type of protection, Explosion Proof US: Class I, Division 1, Gas groups A,B,C,D. Class II, Division 1, Dust Groups E,F,G. T5

NEMA 4X CANADA: Class I, Division 1, Gas groups B,C,D. Class II, Division 1, Dust Groups E,F,G. T5 TYPE earth terminals are also provided.

EUROPE/GLOBAL - ATEX / IECE x APPROVAL Protection concept, Flame Proof 'd' Group II C/A21, Category 2, Gas & Dust, T5,

Precision diecast LM24 alloy, anodised & epoxy stove enamel.

COUPLING

Zinc plated steel.

SEALS

Fluoropolymer dynamic seals. Nitrile butyl rubber static seals.

1.5 kg.

CABLE ENTRY OPTIONS M20 x 1.5 or 1/2" 14 NPT conduit entry threads.

DIAGRAM GUIDE (opposite page)

1. STANDARD INDICATOR

Visual indication of valve position (standard supply).

2. CLEAR CONE MONITOR OPTION

High visibility position indicator shows open-closed status and/or angular position viewed from any angle above the lid. Made of robust transparent antistatic polymer fully sealed onto the metal lid.

3. LID

Made of robust epoxy-coated anodised aluminium alloy, threaded to give rapid removal with external features for easy use.

4. ENCLOSURE

Robust epoxy-coated anodised aluminium alloy with o-ring sealing. 2 or 4 conduit entry options are available.

5. COUPLING

Made from strong plated steel with easily adjusted striker clamps in reinforced polymer. Special strikers with metal inserts are used with inductive proximity sensor options.

6. STANDARD TERMINAL BLOCKS

2 x 3-way blocks accommodating up to a 2.5mm² cable fitted directly adjacent to conduit entries, plus optional third and fourth 3-way blocks for single point termination of external solenoid valve or extra limit switches. Internal and external

7. MULTI TERMINAL OPTION

PCB mounted option which gives 4 x 3 - way terminals, plus 3-way termination for external solenoid and 2-way termination for 4-20mA angle retransmit wiring immediately adjacent to conduit entries (up to 17 connections

8. OPTIONAL AS INTERFACE CIRCUIT

The AS interface circuit fits inside the standard box to give control and monitoring by serial communication of up to 31 actuators, (61 for certain applications). All power and communications for circuits and actuator solenoid valves can be carried via one 2-wire cable. Refer to Kinetrol for details.

9. 3 STOP POSITIONER OPTION

Please refer to Kinetrol for details

10. OPTIONAL ANGLE RETRANSMIT

An optional angle retransmit circuit fits inside the standard explosion proof limit switch box. Powered by a 14 - 30v DC supply, the 2 wire, loop powered circuit generates a 4-20mA current to feedback the position of the actuator. The circuit has zero and span adjustments for easy set-up and with the use of a high quality servo pot and anti backlash spring, gives a long life and high precision.

11. POTENTIOMETER

Feedback from 0 to 20K ohms at 20v maximum.

12. 05 or 03 REDUCER

Reducing square adapter from Kinetrol 07 size to 05 or 03.

13. KINETROL 05 SQUARE DRIVE

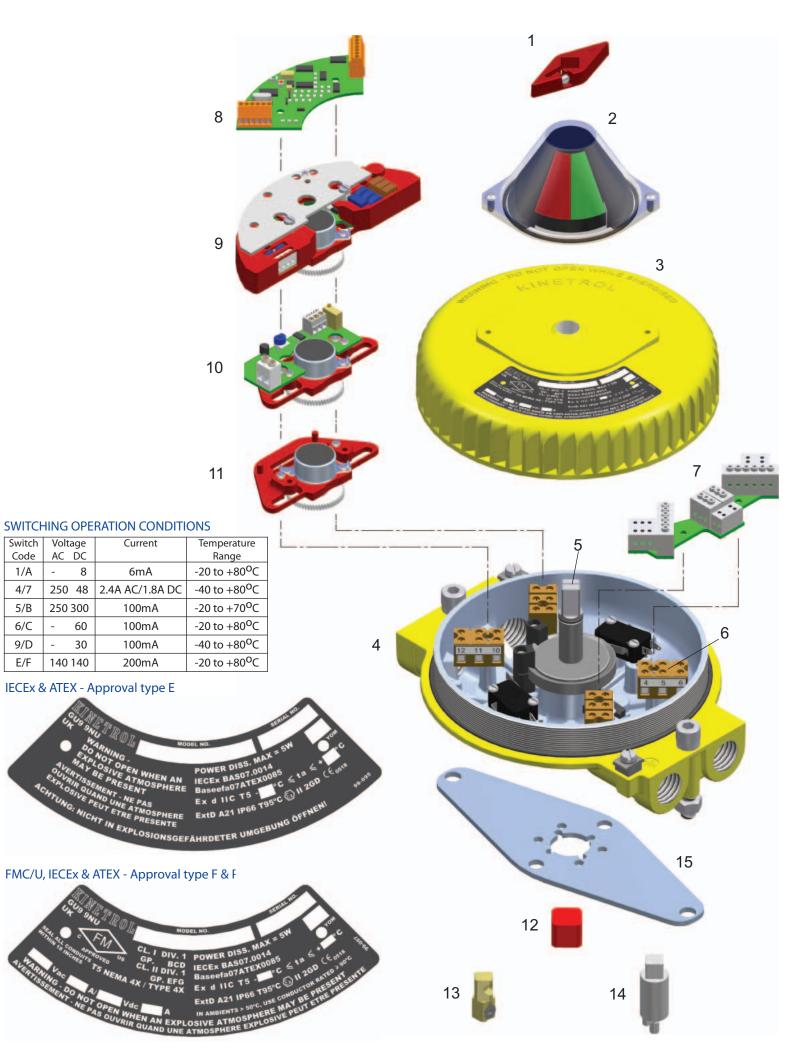
Interfaces with Kinetrol 05 vane slot without backlash.

14. NAMUR ADAPTOR

Converts standard coupling to NAMUR standard.

15. CLOSE - MOUNT PLATE

Standard plate allows close fitting to Kinetrol actuator models 03-14.









Switch

Code

1/A

5/B

6/C

9/D

Voltage

AC DC

250 300

4/7 | 250 48

E/F 140 140

8

60

30

6mA

100mA

100mA