Universal Limit Switch Box

Offers a wide range of signalling options in a zinc alloy fully enclosed corrosion resistant case available for direct mounting onto Kinetrol rotary actuators, or discrete mounting via an industry standard VDI/VDE interface onto any make of rotary actuator. Easy to wire and set up with real industrial-quality robustness. Internally fitted options include AS interface digital communication and a 4-20 mA 2-wire modulating angle retransmit circuit.

The range of switch and terminal arrangements includes 2 or 4 switches, extra connections allowing single point termination of wiring for limit switches and solenoid valves, ATEX approved Exeed (Category 2) explosion proof and Exsia intrinsically safe packages (Category 1). Integral sealed Clear Cone Monitor and red / green LED indicator options also give excellent visual indication of position.

COUPLING – Made from strong plated steel with striker clamps in reinforced polymer, easily adjusted using a screwdriver. Kinetrol direct mount options employ female squares fitting onto a standard actuator, while the VDI/VDE interface option has a standard male drive interface and the Kinetrol discrete option has a simple male drive square. Special strikers with metal inserts are used with inductive proximity sensor options. The angle retransmit option uses a special coupling with a gear form on its outer diameter, which engages with a sprung gear on the pot shaft to give a backlash free drive.

OPTIONAL ANGLE RETRANSMIT – Integrated assembly comprising circuit, feedback pot and drive gear fits inside standard box. Loop powered 2-wire circuit passes 4 – 20 mA current proportional to circuit, feedback pot and drive gear fits inside standard box. High quality servo-pot with ball bearings plus anti-backlash spring gives long life and high precision. Circuit has zero and span adjustments for easy ranging.

OPTIONAL AS INTERFACE CIRCUIT – Fits inside 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. See KF-496 for full details.

LED INDICATORS – Bright red and green LED inserts can be attached via four M3 screws to the standard conduit entries on the limit switch box, sealed on by integral O-rings. 110-240 v AC, 12-24 v DC and AS interface compatible options are available, to give clear bright external signalling of actuator position.

ENCLOSURE – Made of robust epoxy-coated zinc alloy, with O-ring sealing. Low level joint line gives best access to connectors and adjustments. 2 or 4 conduit entry options are available, to cover all requirements with least weight and maximum simplicity.

CLEAR CONE MONITOR – Externally visible position indication shows open-shut status and/or angular position viewed from any angle above the lid – made of robust transparent polymer fully sealed onto the metal lid. A special option for extra chemical resistance is available.

MULTI TERMINAL OPTION – PCB mounted option gives 4 x 3 way switch terminals, plus 3-way termination for external solenoid and 2-way termination for 4-20mA angle retransmit wiring, all immediately adjacent to conduit entries.

M12 PLUG OPTION – Allows easy external connection of AS interface bus via fixed M12 type 4-way socket in conduit entry.

3 – TERMINAL DIN PLUG – Retrofittable option for limit switches, solenoids, and/or angle retransmit signal allowing rapid connection of pre-wired installations with 4-direction adjustability.

STANDARD TERMINAL BLOCKS – 2off 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 earth connections are also provided.

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