Universal Limit Switch Box

**Specification**

**Casing**
- Precision diecast aluminium alloy, switch option 003
- Ex ed diecast zinc alloy

**Finish**
- Epoxy stove enamel

**Seals**
- Nitrile rubber ‘O’ ring seals

**Weight**
- 1.05 kg
- Switch option 003 - 1.4 kg

**Cable entry options**
- 2 or 4 entries
- M20 x 1.5 Conduit thread
- or 1/2 NPS Conduit thread
- 4 Way plug DIN 43650A
  (fits any conduit thread)
- 4 Way M12 Connector
  (M20 Conduit thread only)

**Temperature Range**
- Standard -20°C to +80°C
- High Temp Seals
  up to 100°C
- Also see switch temperatures on page 10

**Dimensions**
- See page 53

All units sealed to IP66/NEMA 4X. IP67 option available

Robust corrosion resistant epoxy painted diecast box

Easy and accurate setting of switch position

Available for direct mounting to Kinetrol models 03 to 15, for minimum height

Quick access - No special tools required

Discrete VDI/VDE (NAMUR) interface option for use with industry standard actuators

Two or four cable entries as standard to allow back wiring of solenoid valves

Many switch options available for general and hazardous areas

AS Interface bus circuit option inside box reads up to 4 switch inputs, drives up to 2 solenoids powered by bus only (see pages 13 & 14)

Optional Clear Cone monitor available

Integral LED indicator lamps and angle retransmit circuit options are available

Compact SPST version of type 004 available for model 02 actuator

### LOAD RATINGS FOR STANDARD MICROSWITCHES (type 004)

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Resistive Load</th>
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<tbody>
<tr>
<td>125 V AC</td>
<td>15A</td>
</tr>
<tr>
<td>250 V AC</td>
<td>15A</td>
</tr>
<tr>
<td>up to 12 V DC</td>
<td>15A</td>
</tr>
<tr>
<td>up to 24 V DC</td>
<td>10A</td>
</tr>
<tr>
<td>up to 48 V DC</td>
<td>3A</td>
</tr>
<tr>
<td>up to 250 V DC</td>
<td>0.25A</td>
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</tbody>
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### MULTIPLICATION FACTORS FOR NON-RESISTIVE LOADS

- Steady state tungsten lamp load - x 0.1
- Steady state inductive load - x 0.2
- Peak inductive load - x 1.0
Switch Type 001
2 intrinsic safe 2 wire inductive proximity sensors for hazardous areas (ATEX CAT 1), normally closed. Ambient temperature range -20°C to +80°C

Switch Type 002
2 pneumatic switches with 4mm (5.32") push in fittings (ATEX CAT 2), normally closed. Ambient temperature range -20°C to +80°C

Switch Type 003
Certificated unit to EEx ed II T6 for hazardous areas to Zone 1 (ATEX CAT 2) 2 x 3 wire switches for SPDT. Ambient temperature range -20°C to +70°C

Switch Type 004
2 x 3 wire microswitches for SPDT. Ambient temperature range -40°C to +80°C

Switch Type 005
2 x 2 wire proximity sensors 20-250 volts AC, normally open. Ambient temperature range -25°C to +70°C

Switch Type 006
2 x 2 wire proximity sensors 5-60 volts DC, normally open, with Led switch status indicators. Ambient temperature range -20°C to +80°C

Switch Type 007
4 x 3 wire microswitches for DPDT. Ambient temperature range -40°C to +80°C

Switch Type 008
2 x 2 wire inductive slotted proximity sensors, normally closed. Ambient temperature range -20°C to +80°C

Switch Type 009
2 x 3 wire gold plated contacts intrinsic safe microswitches for SPDT (ATEX CAT 1). Ambient temperature range -20°C to +80°C

Switch Type 00E
2 x 2 wire proximity sensors 20-140 volts AC / 10-140 volts DC. Ambient temperature range -25°C to +80°C

Switch Type 00M
4 x 3 wire inductive proximity sensors 10-30 volts DC, normally open. Ambient temperature range -25°C to +70°C

Electronics Option B - E
AS interface options are available with both the two and four entry Kinetrol Universal Limit Switch Box. Options B to E allow for different extended addressing options. For more information on the Kinetrol AS interface card see page 13 & 14.

Electronics Option P
Two or four way Universal Limit Switch Box fitted with potentiometer (20K ohms conductive plastic type).

Electronics Option R
Two or four entry Universal Limit Switch Box fitted with angle retransmit, loop powered two wire circuit passes 4-20mA current, proportional to 0-90° position of actuator.

Electronics Option U (standard)
Two or four entry Universal Limit Switch Box without AS interface card, angle retransmit or potentiometer.