



# Product Code Selector

## Switches and Solenoids

### Position transmitters

| Product Category |        |                                  |
|------------------|--------|----------------------------------|
| SB               | 007    | Switch box                       |
| SL               | 007    | Switchbox - Low Profile Cover *  |
| ST               | 007T   | Switch Terminal Box              |
| CC               | 007C   | Switch/Solenoid Control Centre** |
| TA               | K4-20A | Position Transmitter             |
| TX               | K4-20X | Position Transmitter (EEx ia)    |

\* Style 050. Not available in stainless steel.  
 \*\* AS-interface® or DeviceNet compatible versions of the 007C are available on request.

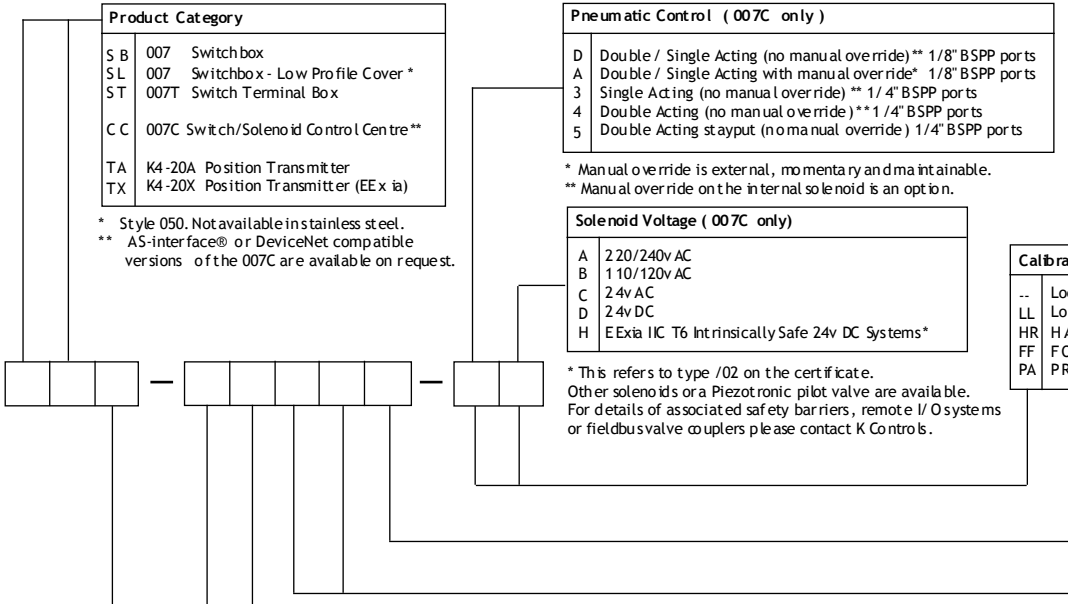
| Pneumatic Control ( 007C only ) |  |
|---------------------------------|--|
| D                               | Double / Single Acting (no manual override) ** 1/8" BSPP ports |
| A                               | Double / Single Acting with manual override* 1/8" BSPP ports   |
| 3                               | Single Acting (no manual override) ** 1/4" BSPP ports          |
| 4                               | Double Acting (no manual override) ** 1/4" BSPP ports          |
| 5                               | Double Acting stayput (no manual override) 1/4" BSPP ports     |

\* Manual override is external, momentarily and maintainable.  
 \*\* Manual override on the internal solenoid is an option.

| Solenoid Voltage ( 007C only ) |  |
|--------------------------------|--|
| A                              | 220/240v AC                                      |
| B                              | 110/120v AC                                      |
| C                              | 24v AC   |
| D                              | 24v DC   |
| H                              | EEx ia IIC T6 Intrinsically Safe 24v DC Systems* |

\* This refers to type /02 on the certificate.  
 Other solenoids or Piezotronic pilot valve are available.  
 For details of associated safety barriers, remote I/O systems or fieldbus valve couplers please contact K Controls.

| Calibration / Fieldbus ( K4-20 only ) |                               |
|---------------------------------------|-------------------------------|
| --                                    | Local push button calibration |
| LL                                    | Loop link calibration         |
| HR                                    | HART®                         |
| FF                                    | FOUNDATION™ fieldbus          |
| PA                                    | PROFIBUS®/PA                  |



| Enclosure Material + Style* |  |
|-----------------------------|--|
| B                           | Aluminium - Style 050 or 070   |
| X                           | Aluminium - Style 080 Ex d IIB + H2  |
| C                           | Aluminium - Style 100  |
| D                           | Aluminium - Style 100 Ex d IIC   |
| S                           | Stainless Steel - Style 070  |
| E                           | Stainless Steel - Style 100  |
| F                           | Stainless Steel - Style 120  |
| R                           | Stainless Steel - Style 100 Ex d IIC   |
| N                           | Stainless Steel - Style 120 Ex d IIC   |
| Z                           | Custom Product**<br>(A unique number is substituted for the rest of the product code e.g. SBZ-00123) |

\* A drawing showing the various enclosure styles is available on request.  
 \*\* Please contact K Controls for details.

| Conduit Entry or Pneumatic Connections + Drive System |  |
|---|--|
| 7   | Metric M20 + VDI/VDE Rotary Drive            |
| 8   | PG 13.5 + VDI/VDE Rotary Drive               |
| 9   | 1/2" NPT + VDI/VDE Rotary Drive              |
| B   | Manifold - M6 Push-in + VDI/VDE Rotary Drive |
| L   | Metric M20 + Namur Linear Drive              |
| K   | PG 13.5 + Namur Linear Drive                 |
| J   | 1/2" NPT + Namur Linear Drive                |
| O   | Metric M20 + Type A Drive Lever              |
| P   | PG 13.5 + Type A Drive Lever                 |
| N   | 1/2" NPT + Type A Drive Lever                |
| A   | Manifold - M6 Push-in + Type A Drive Lever   |
| 1   | Metric M20 + Type B Drive Lever              |
| 2   | PG 13.5 + Type B Drive Lever                 |
| 3   | 1/2" NPT + Type B Drive Lever                |
| 5   | Manifold - M6 Push-in + Type B Drive Lever   |
| V   | Metric M20 + Type C Drive Lever              |
| W   | PG 13.5 + Type C Drive Lever                 |
| X   | 1/2" NPT + Type C Drive Lever                |
| Z   | Manifold - M6 Push-in + Type C Drive Lever   |
| Q   | Metric M20 + Type D Drive Lever              |
| R   | PG 13.5 + Type D Drive Lever                 |
| S   | 1/2" NPT + Type D Drive Lever                |
| M   | Manifold - M6 Push-in + Type D Drive Lever   |

B, A, 5, Z, M : Apply to A3 pneumatic switch option only.  
 M25, PG16 or 3/4" NPT conduit entries on request.  
 A second or third conduit entry is available on request.

| Colour + Indication |   |
|---------------------|---|
| O                   | Black (Safe Areas)                        |
| D                   | Blue (EEx i)                              |
| R                   | Red (Ex d or Ex e)                        |
| S                   | Stainless Steel (Safe or hazardous)       |
| 1                   | O + "Klearvision" (Safe areas only)       |
| 2                   | D + "Klearvision" (IIA, IIB, IIC)         |
| 3                   | R + "Klearvision" (IIA, IIB, IIB+H2, IIC) |
| 4                   | S + "Klearvision" (Safe areas only)       |
| 6                   | S + "Klearvision" (IIA, IIB, IIC)         |
| 7                   | D + "Gyrovision" (IIA, IIB, IIC)          |
| 8                   | R + "Gyrovision" (IIA, IIB, IIC)          |
| 9                   | S + "Gyrovision" (IIA, IIB, IIC)          |

1, 2, 3, 4, 6 "Klearvision" (Standard)  
 High visibility (from above and all sides)  
 top mounted indicator for 90° applications. Yellow = Open. Red = Closed.

7, 8, 9 "Gyrovision" (To special order)  
 Low profile top mounted indicator (visible from above only)  
 for 90° applications.  
 Yellow = Open. Red = Closed.

For a space saving alternative please specify our range of VDI/VDE indicator mounting kits.  
 Code prefix "MVS".

| Feedback Type * |  |
|-----------------|--|
| M 1             | V3 SPDT Mechanical Switch (EN, UL, CSA Approved)                                   |
| M 2             | V3 SPDT Mechanical Switch Gold Plated Contacts (EN, UL, CSA Approved)              |
| M 3             | DPDT Mechanical Switch***  |
| M 6             | Burgess E1 V3C SPDT EExd Mechanical Switch (Switchbox certified EExd 11c T6)****   |
| M 8             | M 2 option fitted in EEx i certified unit  |
| M 9             | M 3 option fitted in EEx i certified unit  |
| R 2             | Magnetically Operated Reed Switch (S.P.S.T. 2 Wire 24V DC 400mA)                   |
| R 3             | Magnetically Operated Reed Switch (S.P.D.T. 3 Wire 24VDC 830mA) - see R6 for 1 amp |
| R 4             | R 2 option fitted in EEx i certified unit  |
| R 5             | R 3 option fitted in EEx i certified unit  |
| R 6             | 24V DC 1 amp version of R3   |
| P 2             | Proximity Switch NJ2-V3-N (Intrinsically Safe 2 Wire)**                            |
| P 4             | Proximity Switch IN 5121 (10 - 36V DC N.O PNP 3 Wire with LED)***                  |
| P 5             | Proximity Switch IN 0073 (20 - 250V AC/DC N.O 2 Wire with LED)***                  |
| P 6             | Proximity Switch NBB2-V3-EO (10 - 30V DC N.O NPN 3 Wire with LED)                  |
| P 7             | Proximity Switch NBB2-V3-E2 (10 - 30V DC N.O PNP 3 Wire with LED)                  |
| P 8             | Proximity Switch IS 5026 (5 - 36V DC N.O/N.C/PNP/NPN 2 Wire with LED)              |
| P 9             | Proximity Switch NBB3-V3-Z4 (5 - 60V DC N.O 2 Wire with LED)                       |
| A 3             | Pneumatic - 2 Port with vent (with manifold - common inlet)****                    |
| O O             | None   |

\* Not all these options are available in all product categories.  
 \* Other switches can be engineered into the 007 Switchbox.  
 As a guide switches should be shielded (embeddable) and not exceed :  
 Rectangular design : 40mm x 30mm x 12mm.  
 Cylindrical design : 18mm diameter x 45mm in length.  
 \* If the switch is required to operate in an ambient temperature less than -20C or above +40C please contact our sales office to check suitability.  
 \*\* Important : These switches will only function with remote amplifiers.  
 P2 can be configured for 2:1 wiring on request.  
 \*\*\* These options are not available in "SL" Low Profile Cover 007 Switch box - style 050.  
 \*\*\*\* For pneumatics switches in hazardous areas please contact our sales office.

| Switch Quantity |        |
|-----------------|--------|
| 1               | One    |
| 2               | Two    |
| 3               | Three* |
| 4               | Four*  |
| 0               | None   |

\* Not available with all switch types and in all products.  
 Not available in (SL) low profile cover versions.