

**Part Number Coding**

| <b>LIPS® SERIES P103</b>                |   | <b>P103</b>  | <b>Travel</b> | <b>Electrical Interface</b> | <b>Calibration Adjuster</b> | <b>Conn / Cable end</b> | <b>Option 1</b> | <b>Option 2</b> | <b>Option 3</b> | <b>Option 4</b> | <b>Option 5</b> | <b>Z code</b> |
|---|---|--|---------------|-----------------------------|-----------------------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|
| <b>Short Stroke Position Sensor</b>     |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Travel</b>                           |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| mm of stroke                            | Value                                       |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Electrical Interface Options</b>     |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Input                                   | Output                                      |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| + 5V dc nom. ± 0.5V                     | 0.5 to 4.5V dc ratiometric                  | A  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| 24V dc nom. +9-28V                      | 0.5-4.5V dc                                 | G  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| ±15V dc nom. ±9-28V                     | ±5V dc                                      | B  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| 24V dc nom. +13-28V                     | 0.5 to 9.5V dc                              | C  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| ± 15V dc nom. ±13.5-28V                 | ±10 V dc                                    | D  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| 24V dc nom. +18-28V                     | 4 to 20mA (2 wire)                          | E  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| 24V dc nom. +13-28V                     | 4 to 20mA (3 wire sink)                     | F  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| 24V dc nom. +13-28V                     | 4 to 20mA (3 wire source)                   | H  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Calibration Adjusters</b>            |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Trim Pots Accessible                    | Blank                                       |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Sealed Trim Pots                        | Y   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Connector / Cable</b>                |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Connector - Axial IP65                  | Hirschmann GD series                        | J  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Connector - Axial IP67                  | M12 - 4 pin                                 | J + Z600   |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| (for sensors with Trim Pots sealed)     |   | use Code J plus suffix Z600  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Connector - Axial IP67                  | M12 - 4 pin                                 | J + Z601   |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| (for sensors with Trim Pots Accessible) |   | use Code J plus suffix Z601  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Cable - Axial Gland IP67                | Please specify cable length in cm.          | Lxx eg. L2000 specifies 20 metres of cable with an axial cable gland |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Cable - Axial Short Gland IP67          | Please specify cable length in cm.          | Mxx Note: restricted cable pull strength                             |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>OPTIONS</b>                          |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Housing</b>                          |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Front Flange                            | Option 1 N                                  |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Body Clamp</b>                       |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Body Clamps (1 pair)                    | Option 2 P                                  |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Spring Return</b>                    |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Spring Return                           | Option 3 R                                  |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Plunger End Fitting</b>              |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Dome End                                | Option 4 T                                  |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Plunger (Armature) Guide</b>         |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| Free Plunger (no inner guide bearing)   | Option 5 V Not available with option R or T |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| <b>Tighter Linearity</b>                |   |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |
| ± 0.1% Linearity                        | Zsuffix Z650 from 10mm stroke only          |  |               |                             |                             |                         |                 |                 |                 |                 |                 |               |