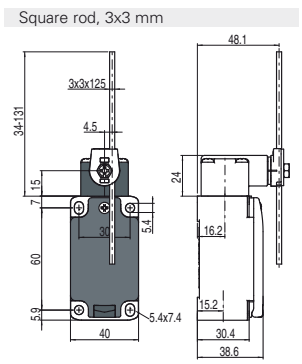
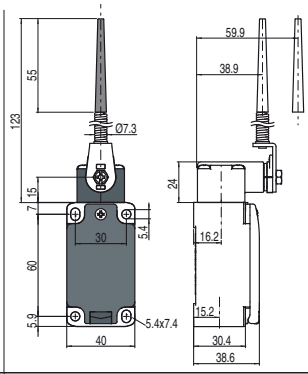
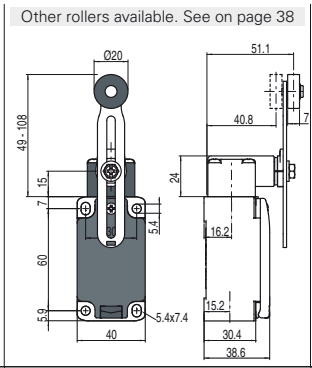
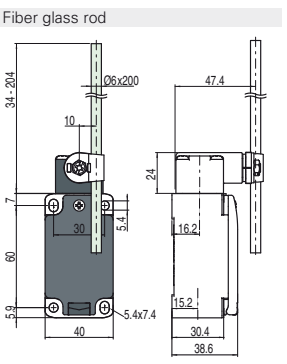
# Position switches **FP** series

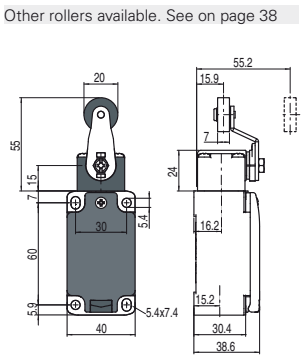
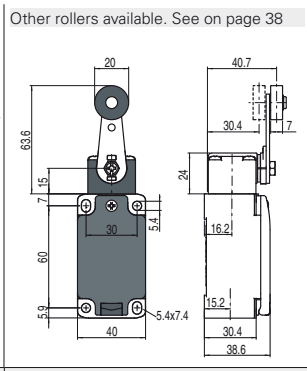
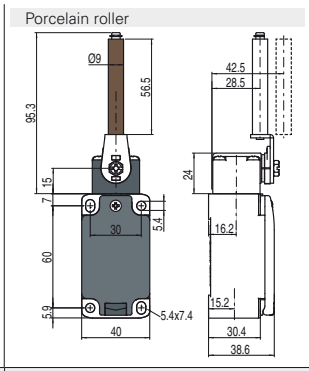
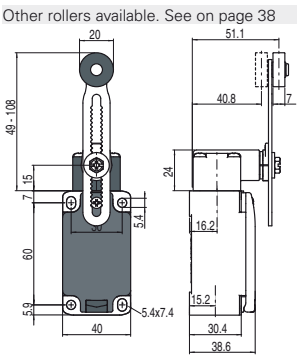
Contact type:

- R = snap action
- L = slow action
- LO = slow action overlapped
- LS = slow action shifted
- LV = slow action shifted and spaced
- LI = slow action independent
- LA = slow action closer
- = electronic PNP

Contact blocks

| | | Square rod, 3x3 mm | | Other rollers available. See on page 38 | Fiber glass rod |
|---|---|---|---|---|---|
| | |  |  |  |  |
| 5 | R | FP 533-M2 1NO+1NC | FP 534-M2 1NO+1NC | FP 535-M2 (1) 1NO+1NC | FP 536-M2 1NO+1NC |
| 6 | L | FP 633-M2 1NO+1NC | FP 634-M2 1NO+1NC | FP 635-M2 (1) 1NO+1NC | FP 636-M2 1NO+1NC |
| 7 | LO | FP 733-M2 1NO+1NC | FP 734-M2 1NO+1NC | FP 735-M2 (1) 1NO+1NC | FP 736-M2 1NO+1NC |
| 9 | L | FP 933-M2 2NC | FP 934-M2 2NC | FP 935-M2 (1) 2NC | FP 936-M2 2NC |
| 10 | L | FP 1033-M2 2NO | FP 1034-M2 2NO | FP 1035-M2 2NO | FP 1036-M2 2NO |
| 11 | R | FP 1133-M2 2NC | FP 1134-M2 2NC | FP 1135-M2 (1) 2NC | FP 1136-M2 2NC |
| 12 | R | FP 1233-M2 2NO | FP 1234-M2 2NO | FP 1235-M2 2NO | FP 1236-M2 2NO |
| 13 | LV | FP 1333-M2 2NC | FP 1334-M2 2NC | FP 1335-M2 (1) 2NC | FP 1336-M2 2NC |
| 14 | LS | FP 1433-M2 2NC | FP 1434-M2 2NC | FP 1435-M2 (1) 2NC | FP 1436-M2 2NC |
| 15 | LS | FP 1533-M2 2NO | FP 1534-M2 2NO | FP 1535-M2 2NO | FP 1536-M2 2NO |
| 16 | LI | FP 1633-M2 2NC | FP 1634-M2 2NC | FP 1635-M2 (1) 2NC | FP 1636-M2 2NC |
| 18 | LA | FP 1833-M2 1NO+1NC | FP 1834-M2 1NO+1NC | FP 1835-M2 (1) 1NO+1NC | FP 1836-M2 1NO+1NC |
| 20 | L | FP 2033-M2 1NO+2NC | FP 2034-M2 1NO+2NC | FP 2035-M2 (1) 1NO+2NC | FP 2036-M2 1NO+2NC |
| 21 | L | FP 2133-M2 3NC | FP 2134-M2 3NC | FP 2135-M2 (1) 3NC | FP 2136-M2 3NC |
| 22 | L | FP 2233-M2 2NO+1NC | FP 2234-M2 2NO+1NC | FP 2235-M2 (1) 2NO+1NC | FP 2236-M2 2NO+1NC |
| 2 | R | FP 233-M2 2x(1NO-1NC) | FP 234-M2 2x(1NO-1NC) | FP 235-M2 2x(1NO-1NC) | FP 236-M2 2x(1NO-1NC) |
| E1 | | FP E133-M2 1NO-1NC | FP E134-M2 1NO-1NC | FP E135-M2 1NO-1NC | FP E136-M2 1NO-1NC |
| Max. speed | | 1.5 m/s | 1 m/s | page 237 - type 1 | 1.5 m/s |
| Min. force | | 0.1 Nm | 0.1 Nm | 0.1 Nm (0.25 Nm) | 0.1 Nm |
| Travel diagrams | | page 238 - group 4 | page 238 - group 4 | page 238 - group 4 | page 238 - group 4 |

Contact blocks

| | | Other rollers available. See on page 38 | Other rollers available. See on page 38 | Porcelain roller | Other rollers available. See on page 38 |
|---|---|---|---|---|---|
| | |  |  |  |  |
| 5 | R | FP 551-M2 1NO+1NC | FP 552-M2 1NO+1NC | FP 553-E11M2V9 1NO+1NC | FP 556-M2 1NO+1NC |
| 6 | L | FP 651-M2 1NO+1NC | FP 652-M2 1NO+1NC | FP 653-E11M2V9 1NO+1NC | FP 656-M2 1NO+1NC |
| 7 | LO | FP 751-M2 1NO+1NC | FP 752-M2 1NO+1NC | FP 753-E11M2V9 1NO+1NC | FP 756-M2 1NO+1NC |
| 9 | L | FP 951-M2 2NC | FP 952-M2 2NC | FP 953-E11M2V9 2NC | FP 956-M2 2NC |
| 10 | L | FP 1051-M2 2NO | FP 1052-M2 2NO | FP 1053-E11M2V9 2NO | FP 1056-M2 2NO |
| 11 | R | FP 1151-M2 2NC | FP 1152-M2 2NC | | FP 1156-M2 2NC |
| 12 | R | FP 1251-M2 2NO | FP 1252-M2 2NO | FP 1253-E11M2V9 2NO | FP 1256-M2 2NO |
| 13 | LV | FP 1351-M2 2NC | FP 1352-M2 2NC | FP 1353-E11M2V9 2NC | FP 1356-M2 2NC |
| 14 | LS | FP 1451-M2 2NC | FP 1452-M2 2NC | FP 1453-E11M2V9 2NC | FP 1456-M2 2NC |
| 15 | LS | FP 1551-M2 2NO | FP 1552-M2 2NO | FP 1553-E11M2V9 2NO | FP 1556-M2 2NO |
| 16 | LI | | | | FP 1656-M2 2NC |
| 18 | LA | FP 1851-M2 1NO+1NC | FP 1852-M2 1NO+1NC | FP 1853-E11M2V9 1NO+1NC | FP 1856-M2 1NO+1NC |
| 20 | L | FP 2051-M2 1NO+2NC | FP 2052-M2 1NO+2NC | FP 2053-E11M2V9 1NO+2NC | FP 2056-M2 1NO+2NC |
| 21 | L | FP 2151-M2 3NC | FP 2152-M2 3NC | FP 2153-E11M2V9 3NC | FP 2156-M2 3NC |
| 22 | L | FP 2251-M2 2NO+1NC | FP 2252-M2 2NO+1NC | FP 2253-E11M2V9 2NO+1NC | FP 2256-M2 2NO+1NC |
| 2 | R | FP 251-M2 2x(1NO-1NC) | FP 252-M2 2x(1NO-1NC) | FP 253-E11M2 2x(1NO-1NC) | FP 256-M2 2x(1NO-1NC) |
| E1 | | FP E151-M2 1NO-1NC | FP E152-M2 1NO-1NC | FP E153-E11M2V9 1NO-1NC | FP E156-M2 1NO-1NC |
| Max. speed | | page 237 - type 1 | page 237 - type 1 | 0.5 m/s | page 237 - type 1 |
| Min. force | | 0.06 Nm (0.25 Nm) | 0.06 Nm (0.25 Nm) | 0.03 Nm (0.25 Nm) | 0.1 Nm (0.25 Nm) |
| Travel diagrams | | page 238 - group 4 | page 238 - group 4 | page 238 - group 5 | page 238 - group 4 |

(1) Positive opening only with actuator set to max. See page 37.

All measures in the drawings are in mm

Items with code on **green** background are stock items

**Accessories** See page 225