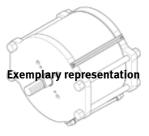
## linear drive DFPI-320- -ND2P-E-P-G2

Part number: 1808263 Product to be discontinued

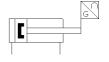
with integrated potentiometric displacement encoder, double-acting, piston diameter 320 mm, mounting interfaces for process valve fittings to DIN EN ISO 5210 on bearing cap, electric/pneumatic connection via metallic female socket and connecting cable NHSB (accessories). Type to be discontinued. Available until 2024. See Support Portal for alternative products.



## **Data sheet**

| Feature                                                  | Value                                                            |
|----------------------------------------------------------|------------------------------------------------------------------|
| Size of actuator                                         | 320                                                              |
| Flange hole pattern                                      | F10                                                              |
|                                                          | F14                                                              |
| Stroke                                                   | 40 990 mm                                                        |
| Stroke reserve                                           | 4 mm                                                             |
| Piston diameter                                          | 320 mm                                                           |
| Fitting connection conforms to standard                  | ISO 5210                                                         |
| Cushioning                                               | No cushioning                                                    |
| Assembly position                                        | Any                                                              |
| Mode of operation                                        | double-acting                                                    |
| Design structure                                         | Piston                                                           |
|                                                          | Piston rod                                                       |
|                                                          | Tie rod                                                          |
|                                                          | Cylinder barrel                                                  |
| Position detection                                       | With integrated displacement encoder                             |
| Measuring method: displacement encoder                   | Potentiometer                                                    |
| Operating pressure MPa                                   | 0.3 0.8 MPa                                                      |
| Operating pressure                                       | 3 8 bar                                                          |
|                                                          | 43.5 116 psi                                                     |
| Nominal operating pressure                               | 0.6 MPa                                                          |
|                                                          | 6 bar                                                            |
| Operating voltage range DC                               | 0 15 V                                                           |
| KC mark                                                  | KC-EMV                                                           |
| CE mark (see declaration of conformity)                  | to EU directive explosion protection (ATEX)                      |
| UKCA marking (see declaration of conformity)             | To UK EX instructions                                            |
| ATEX category Gas                                        | II 2G                                                            |
| ATEX category Dust                                       | II 2D                                                            |
| Explosion ignition protection type Gas                   | Ex h IIC T4 Gb X                                                 |
| Explosion ignition protection type Dust                  | Ex h IIIC T120°C Db X                                            |
| Explosion-proof ambient temperature                      | -20°C <= Ta <= +60°C                                             |
| Operating medium                                         | Compressed air in accordance with ISO8573-1:2010 [7:4:4]         |
| Note on operating and pilot medium                       | Lubricated operation possible (subsequently required for further |
|                                                          | operation)                                                       |
| Continuous shock resistance per DIN/IEC 68, parts 2 - 82 | Tested in accordance with severity level 2                       |
| Storage temperature                                      | -20 60 °C                                                        |
| Relative air humidity                                    | 5 - 100 %                                                        |
|                                                          | Condensing                                                       |
| Protection class                                         | IP65                                                             |
|                                                          | IP67                                                             |
|                                                          | ІР69К                                                            |

**FESTO** 



## FESTO

| Feature                                                  | Value                                      |  |
|----------------------------------------------------------|--------------------------------------------|--|
|                                                          | NEMA 4                                     |  |
| Vibration resistance per DIN/IEC 68, parts 2 - 6         | Tested in accordance with severity level 2 |  |
| Ambient temperature                                      | -20 60 °C                                  |  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 47,501 N                                   |  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 48,255 N                                   |  |
| Air consumption returning per 10 mm stroke               | 5.5418                                     |  |
| Air consumption advancing per 10 mm stroke               | 5.6297 l                                   |  |
| Moving mass with 0 mm stroke                             | 11,417 g                                   |  |
| Additional mass factor per 10 mm of stroke               | 87 g                                       |  |
| Basic weight for 0 mm stroke                             | 35,359 g                                   |  |
| Additional weight per 10 mm stroke                       | 399 g                                      |  |
| Additional weight of displacement encoder per 10 mm      | 2 g                                        |  |
| Hysteresis                                               | 0.33 mm                                    |  |
| Independent linearity                                    | 0,04 %                                     |  |
| Repetition accuracy in ± mm                              | 0.12 mm                                    |  |
| Electrical connection                                    | 3-pin                                      |  |
|                                                          | Straight plug / screw terminal             |  |
|                                                          | With specific accessories                  |  |
| Pneumatic connection                                     | For tubing outside diameter 8 mm           |  |
|                                                          | With specific accessories                  |  |
| Materials note                                           | Contains PWIS substances                   |  |
|                                                          | Conforms to RoHS                           |  |
| Material of end caps                                     | Anodised wrought aluminium alloy           |  |
| Material underneath cover                                | Anodised wrought aluminium alloy           |  |
| Material piston rod                                      | High alloy steel, non-corrosive            |  |
| Material piston rod wiper seal                           | NBR                                        |  |
| Material screws                                          | High alloy steel, non-corrosive            |  |
| Material static seals                                    | NBR                                        |  |
| Material tie rod                                         | High alloy steel, non-corrosive            |  |
| Material cylinder barrel                                 | High alloy steel, non-corrosive            |  |