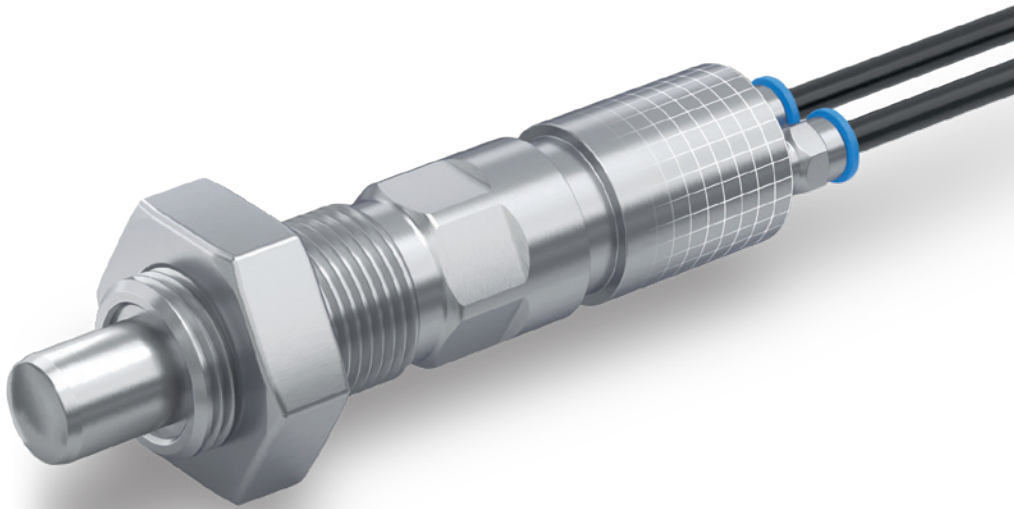


New

# Pneumatically Operated Indexing Plungers



 **IO-Link**  
inside



DESIGNED  
FOR ENGINEERING





 **IO-Link**  
inside



## Stainless Steel Indexing Plungers

### Pneumatically Operated

#### SPECIFICATION

##### Types

- Type **D**: Pneumatically double-acting, protrude / retract
- Type **A**: Pneumatically single-acting, retract by spring force
- Type **E**: Pneumatically single-acting, protrude by spring force

##### Coding

- **OP**: Without position query
- **BS0,4**: Position query on both sides, with plug, cable 0.4 m

Stainless steel AISI 303

Plunger pin surface hardened

Rod seal

Polyurethane PUR

Piston seal and O-ring

Acrylonitrile butadiene rubber (NBR)

Magnet

Neodymium, iron, boron (NdFeB)

Sensor

- Housing  
Polyamide (PA), black
- Cable and plug  
Outer sheath polyurethane (PUR), black

Sensor clip

Polyacetal (POM), black

Lock nut ISO 8675 (see page )

Stainless steel, AISI 304

#### INFORMATION

Stainless steel indexing plungers GN 817.7 with pneumatic operation can be easily and securely integrated into automated processes and can be positioned at locations where hand operation of the indexing plunger is not possible. Thanks to the material used, the indexing plungers are also suitable for more aggressive environments.

An integrated magnet allows the plunger pin position to be queried electronically by a sensor. The end limits (protruding and retracted position) are taught-in via the operating element on the sensor cable. They each send a high signal, which is indicated by the respective LED and can be processed by a machine control, for example.

The sensor electronics can also be accessed via IO-Link and offer the ability to set and read out the switching points and to block the teach button on the operating element. To avoid interference, no external magnetic fields should act on the indexing plunger. The pneumatic indexing plungers are supplied with a lock nut. With coding BS0,4, the sensor, sensor clip and an allen wrench are also supplied loose.

- Range of indexing plungers (see page 738)

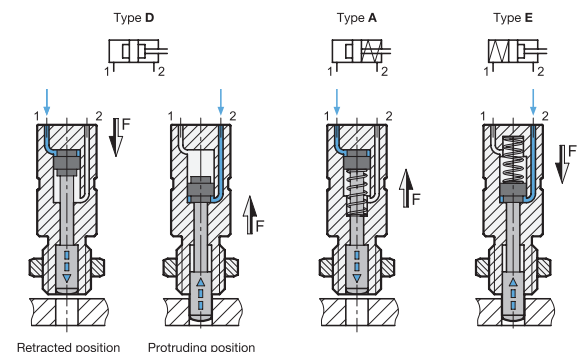
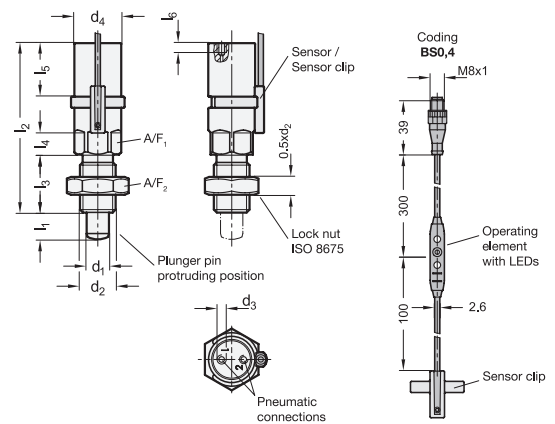
#### ACCESSORY

- Cable with Connector GN 330 (see page 1448)



#### TECHNICAL INFORMATION

- IO-Link Device Description File
- Sensor Starting Operation
- IP Protection Classes (see page A23)
- ISO-Fundamental Tolerances (see page A21)
- Elastomer Characteristics (see page A32)
- Stainless Steel Characteristics (see page A26)



GN 817.7-D

STAINLESS STEEL

| Description            | d1<br>Pin<br>-0.02/<br>-0.05<br>Bore H7 | l1 | d2         | d3  | d4 | l2 | l3 | l4 | l5 | l6<br>min. | A/F<br>1 | A/F<br>2 | Force F<br>at 6 bar<br>in N≈<br>When<br>protruding | Force F<br>at 6 bar<br>in N≈<br>When<br>retracting |  |
|------------------------|-----------------------------------------|----|------------|-----|----|----|----|----|----|------------|----------|----------|----------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|
| GN 817.7-6-9-D-OP      | 6                                       | 9  | M 12 x 1.5 | M 3 | 21 | 73 | 22 | 10 | 24 | 4          | 19       | 18       | 65                                                 | 50                                                 | 176                                                                                 |
| GN 817.7-6-9-D-BS0,4   | 6                                       | 9  | M 12 x 1.5 | M 3 | 21 | 73 | 22 | 10 | 24 | 4          | 19       | 18       | 65                                                 | 50                                                 | 178                                                                                 |
| GN 817.7-8-12-D-OP     | 8                                       | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 65                                                 | 50                                                 | 202                                                                                 |
| GN 817.7-8-12-D-BS0,4  | 8                                       | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 65                                                 | 50                                                 | 205                                                                                 |
| GN 817.7-10-12-D-OP    | 10                                      | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 65                                                 | 50                                                 | 205                                                                                 |
| GN 817.7-10-12-D-BS0,4 | 10                                      | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 65                                                 | 50                                                 | 207                                                                                 |
| GN 817.7-12-15-D-OP    | 12                                      | 15 | M 20 x 1.5 | M 3 | 21 | 76 | 34 | 10 | 24 | 4          | 19       | 30       | 65                                                 | 50                                                 | 246                                                                                 |
| GN 817.7-12-15-D-BS0,4 | 12                                      | 15 | M 20 x 1.5 | M 3 | 21 | 76 | 34 | 10 | 24 | 4          | 19       | 30       | 65                                                 | 50                                                 | 248                                                                                 |

GN 817.7-A

STAINLESS STEEL

| Description            | d1<br>Pin<br>-0.02/<br>-0.05<br>Bore H7 | l1 | d2         | d3  | d4 | l2 | l3 | l4 | l5 | l6<br>min. | A/F<br>1 | A/F<br>2 | Spring force F<br>in N≈<br>Retracted | Spring force F<br>in N≈<br>Protruding |  |
|------------------------|-----------------------------------------|----|------------|-----|----|----|----|----|----|------------|----------|----------|--------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| GN 817.7-6-9-A-OP      | 6                                       | 9  | M 12 x 1.5 | M 3 | 21 | 73 | 22 | 10 | 24 | 4          | 19       | 18       | 12                                   | 26                                    | 179                                                                                   |
| GN 817.7-6-9-A-BS0,4   | 6                                       | 9  | M 12 x 1.5 | M 3 | 21 | 73 | 22 | 10 | 24 | 4          | 19       | 18       | 12                                   | 26                                    | 181                                                                                   |
| GN 817.7-8-12-A-OP     | 8                                       | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 12                                   | 26                                    | 205                                                                                   |
| GN 817.7-8-12-A-BS0,4  | 8                                       | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 12                                   | 26                                    | 207                                                                                   |
| GN 817.7-10-12-A-OP    | 10                                      | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 12                                   | 26                                    | 207                                                                                   |
| GN 817.7-10-12-A-BS0,4 | 10                                      | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 12                                   | 26                                    | 209                                                                                   |
| GN 817.7-12-15-A-OP    | 12                                      | 15 | M 20 x 1.5 | M 3 | 21 | 76 | 34 | 10 | 24 | 4          | 19       | 30       | 12                                   | 26                                    | 248                                                                                   |
| GN 817.7-12-15-A-BS0,4 | 12                                      | 15 | M 20 x 1.5 | M 3 | 21 | 76 | 34 | 10 | 24 | 4          | 19       | 30       | 12                                   | 26                                    | 250                                                                                   |

GN 817.7-E

STAINLESS STEEL

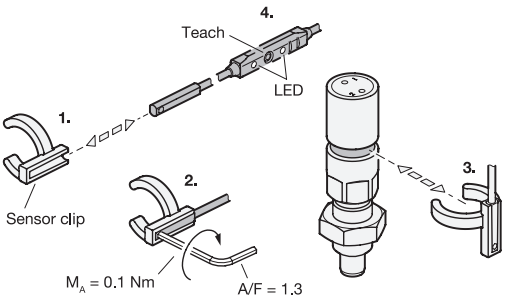
| Description            | d1<br>Pin<br>-0.02/<br>-0.05<br>Bore H7 | l1 | d2         | d3  | d4 | l2 | l3 | l4 | l5 | l6<br>min. | A/F<br>1 | A/F<br>2 | Spring force F<br>in N≈<br>Retracted | Spring force F<br>in N≈<br>Protruding |  |
|------------------------|-----------------------------------------|----|------------|-----|----|----|----|----|----|------------|----------|----------|--------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| GN 817.7-6-9-E-OP      | 6                                       | 9  | M 12 x 1.5 | M 3 | 21 | 73 | 22 | 10 | 24 | 4          | 19       | 18       | 26                                   | 12                                    | 177                                                                                   |
| GN 817.7-6-9-E-BS0,4   | 6                                       | 9  | M 12 x 1.5 | M 3 | 21 | 73 | 22 | 10 | 24 | 4          | 19       | 18       | 26                                   | 12                                    | 179                                                                                   |
| GN 817.7-8-12-E-OP     | 8                                       | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 26                                   | 12                                    | 203                                                                                   |
| GN 817.7-8-12-E-BS0,4  | 8                                       | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 26                                   | 12                                    | 205                                                                                   |
| GN 817.7-10-12-E-OP    | 10                                      | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 26                                   | 12                                    | 215                                                                                   |
| GN 817.7-10-12-E-BS0,4 | 10                                      | 12 | M 16 x 1.5 | M 3 | 21 | 76 | 26 | 10 | 24 | 4          | 19       | 24       | 26                                   | 12                                    | 217                                                                                   |
| GN 817.7-12-15-E-OP    | 12                                      | 15 | M 20 x 1.5 | M 3 | 21 | 76 | 34 | 10 | 24 | 4          | 19       | 30       | 26                                   | 12                                    | 246                                                                                   |
| GN 817.7-12-15-E-BS0,4 | 12                                      | 15 | M 20 x 1.5 | M 3 | 21 | 76 | 34 | 10 | 24 | 4          | 19       | 30       | 26                                   | 12                                    | 248                                                                                   |

Assembly Instructions

The radial position of the sensor cable can be freely determined when installing the sensor clip.

Installation steps:

1. Insert the sensor into the sensor clip from the side.
2. Tighten the hexagon socket screw of the sensor.
3. Clip the sensor clip into the ring groove of the indexing plunger and then adjust the position by turning, if necessary.
4. During commissioning, teach the sensor to the end positions via the operating element or IO-Link in accordance with the operating instructions supplied with the sensor.



| Pneumatic properties |                                      |
|----------------------|--------------------------------------|
| Operating pressure   | 4 - 6 bar                            |
| Operating medium     | Filtered, dried air, unoled or oiled |
| Temperature range    | -20 °C ... +80 °C                    |

| Electrical Properties of the Sensor |                                                                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output function                     | 2x normally open (NO)                                                                                                                                                                                   |
| Output type                         | 2x PNP                                                                                                                                                                                                  |
| Supply voltage                      | 12 - 30 V DC                                                                                                                                                                                            |
| Continuous current Ia               | ≤ 100 mA                                                                                                                                                                                                |
| Connection type                     | 4-pole connector M8x1, freely rotating with knurled screw connection                                                                                                                                    |
| Protection type                     | IP 67                                                                                                                                                                                                   |
| Power consumption                   | ≤ 15 mA                                                                                                                                                                                                 |
| Voltage drop                        | ≤ 2.2 V                                                                                                                                                                                                 |
| Protection class                    | III                                                                                                                                                                                                     |
| Temperature range                   | -20 °C ... +75 °C                                                                                                                                                                                       |
| Shock and vibration resistance      | 30 g, 11 ms / 10 ... 55 Hz, 1 mm                                                                                                                                                                        |
| EMV                                 | According to EN 60947-5-2                                                                                                                                                                               |
| Reverse polarity protection         | Yes                                                                                                                                                                                                     |
| Short-circuit protection            | Yes                                                                                                                                                                                                     |
| Activation impulse suppression      | Yes                                                                                                                                                                                                     |
| Communication interface             | IO-Link (V1.0)<br>Cycle time 2.3 ms<br>Process data length 2 bits<br>Process data structure:<br>Bit 0 = Switching signal Q <sub>1</sub><br>Bit 1 = Switching signal Q <sub>2</sub><br>Bit 2...7 = Empty |
| Approvals, conformity declarations  | CE IO-Link inside                                                                                                                                                                                       |

**COPYRIGHT © 2022**

Elesa S.p.A and OTTO GANTER GmbH & Co. KG

All rights reserved.

No part of this catalogue can be reproduced in whole  
or in part without prior written permission from

Elesa S.p.A or OTTO GANTER GmbH & Co. KG



Find out more on [elesa-ganter.in](https://www.elesa-ganter.in)

ELESA AND GANTER INDIA PVT LTD  
A-54, Sector-83  
Noida - 201305 (UP)  
India  
+91 120 4726666  
[info@elesa-ganter.in](mailto:info@elesa-ganter.in)  
**elesa-ganter.in**



DESIGNED  
FOR ENGINEERING