

Stainless Steel- Indexing plungers with sensor for position monitoring

SPECIFICATION

Types

- Type **EB**: with engagement monitoring, without rest position
- Type **EC**: with engagement monitoring, with rest position

Connection Type

- Connection type **S**: Plug

Stainless Steel

- AISI 303
- Plunger pin chemically nickel plated

Knob, Plastic (Polyamide PA)

- black, matte
- not removable

Magnet

Hard ferrite

Sensor / Sensor clip

Plastic (Polyamide PA), black, matte

Cable (Outer sheath)

Polyurethan PUR, black

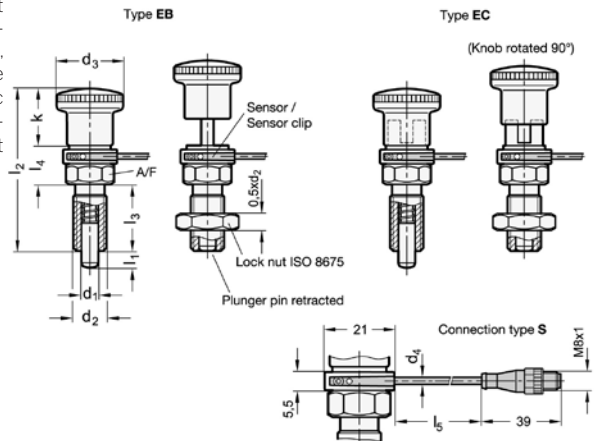


INFORMATION

Stainless Steel-Indexing plungers GN 817.6 with sensor for position monitoring allow for electronic monitoring of the plunger pin state. For this purpose, a magnet is integrated into the plunger pin that switches the sensor upon engaging after approx. 2/3 of the engagement distance l_1 . The sensor electronics then outputs a high signal, e.g. to a machine control, and additionally indicates this switch state with an LED on the sensor. To prevent faults, no external magnetic fields should be acting on the indexing plunger. The Stainless Steel-Indexing plungers GN 817.6 are delivered with enclosed sensor (not installed), Allen® wrench and sensor clip.

TECHNICAL INFORMATION

- IP Protection classes (see page A23)
- Load rating information (see page A42)
- ISO-Fundamental Tolerances (see page A21)
- Plastic characteristics (see page A2)
- Stainless Steel characteristics (see page A26)

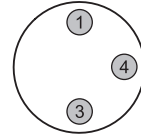
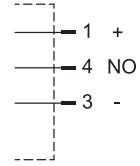


GN 817.6

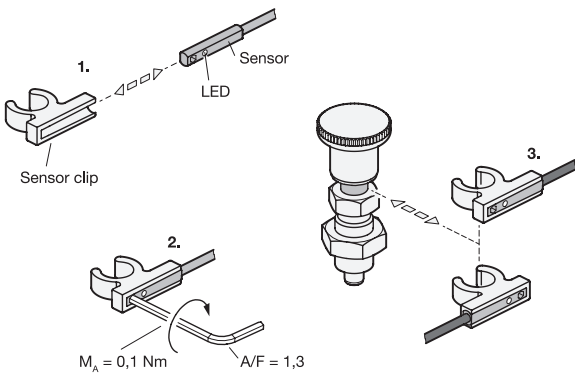
STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	l1	Cable length l5 in meter	d2	d3	d4	k	l2	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.6-4-6-EB-S-0.5	4	6	0.5	M 8 x 1	16	2	14	41.5	16	11.5	10	4	12.5	27
GN 817.6-4-6-EC-S-0.5	4	6	0.5	M 8 x 1	16	2	14	41.5	16	11.5	10	4	12.5	29
GN 817.6-5-8-EB-S-0.5	5	8	0.5	M 10 x 1	19	2	16	46.5	18	12.5	12	5	18	39
GN 817.6-5-8-EC-S-0.5	5	8	0.5	M 10 x 1	19	2	16	46.5	18	12.5	12	5	18	42
GN 817.6-6-9-EB-S-0.5	6	9	0.5	M 12 x 1.5	23	2	20	54.5	22	12.5	14	6	25	56
GN 817.6-6-9-EC-S-0.5	6	9	0.5	M 12 x 1.5	23	2	20	54.5	22	12.5	14	6	25	60
GN 817.6-8-12-EB-S-0.5	8	12	0.5	M 16 x 1.5	28	2	24	64.5	26	14.5	17	8.5	28	105
GN 817.6-8-12-EC-S-0.5	8	12	0.5	M 16 x 1.5	28	2	24	64.5	26	14.5	17	8.5	28	111
GN 817.6-10-12-EB-S-0.5	10	12	0.5	M 16 x 1.5	28	2	24	64.5	26	14.5	17	9.5	38	106
GN 817.6-10-12-EC-S-0.5	10	12	0.5	M 16 x 1.5	28	2	24	64.5	26	14.5	17	9.5	38	112
GN 817.6-12-15-EB-S-0.5	12	15	0.5	M 20 x 1.5	33	2	28.5	78	33	16.5	22	11.5	40	200
GN 817.6-12-15-EC-S-0.5	12	15	0.5	M 20 x 1.5	33	2	28.5	78	33	16.5	22	11.5	40	212
GN 817.6-16-20-EB-S-0.5	16	20	0.5	M 24 x 2	33	2	28.5	85	38	18.5	27	13	54	313
GN 817.6-16-20-EC-S-0.5	16	20	0.5	M 24 x 2	33	2	28.5	85	38	18.5	27	13	54	329

Electrical properties of the sensor	
Output function	Normally open (NO)
Switch output	PNP
Supply voltage	10 - 30 V DC
Continuous current I_a	≤ 100 mA
Connection type Plug (S)	3-pole plug M8x1, freely rotating with knurled screw connection, with PUR cable 0.5 m
Protection class	IP 67
Switching frequency	1,000 Hz
Power consumption	≤ 8 mA
Voltage drop	≤ 2.5 V
Protection class	III
Response sensitivity	2.8 mT
Temperature range	-25 °C ... +75 °C
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Reverse polarity protection	Yes
Short-circuit protection	Yes
Activation impulse suppression	Yes
Approvals, conformities CE declaration	CE



ASSEMBLY INSTRUCTION



The position of the sensor cable can be chosen freely during installation of 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 in any orientation and then adjust the direction by turning, if necessary.



Indexing elements