

GN 817.6 | Stainless Steel-Indexing plungers

with sensor for position monitoring



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TYPES

- Type **EB**: without rest position
- Type **EC**: with rest position

CONNECTION TYPE

- Type of connection **S**: circular connector

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

Locking nut ISO 8675

AISI 304 stainless steel

INFORMATION

GN 817.6 stainless steel plungers are fitted with a sensor which allows electronic monitoring of the pin position. For this purpose, a magnet is integrated into the plunger pin that switches the sensor upon engaging after approx. 2/3 of the locking distance l_1 .

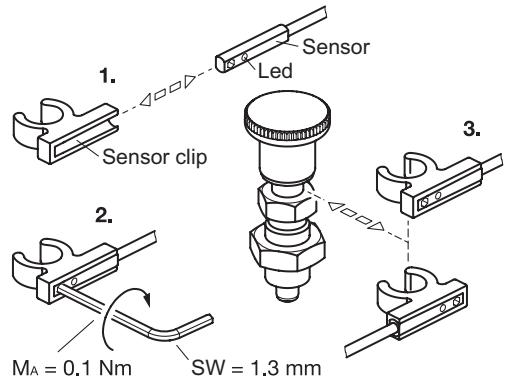
To prevent malfunctions, avoid the presence of magnetic fields acting on the plunger. GN 817.6 stainless steel plungers are fitted with a sensor, sensor clip, Allen® key and locking nut.

TECHNICAL DATA

Degree of protection IP in accordance with EN 60529 table (on page A-19).

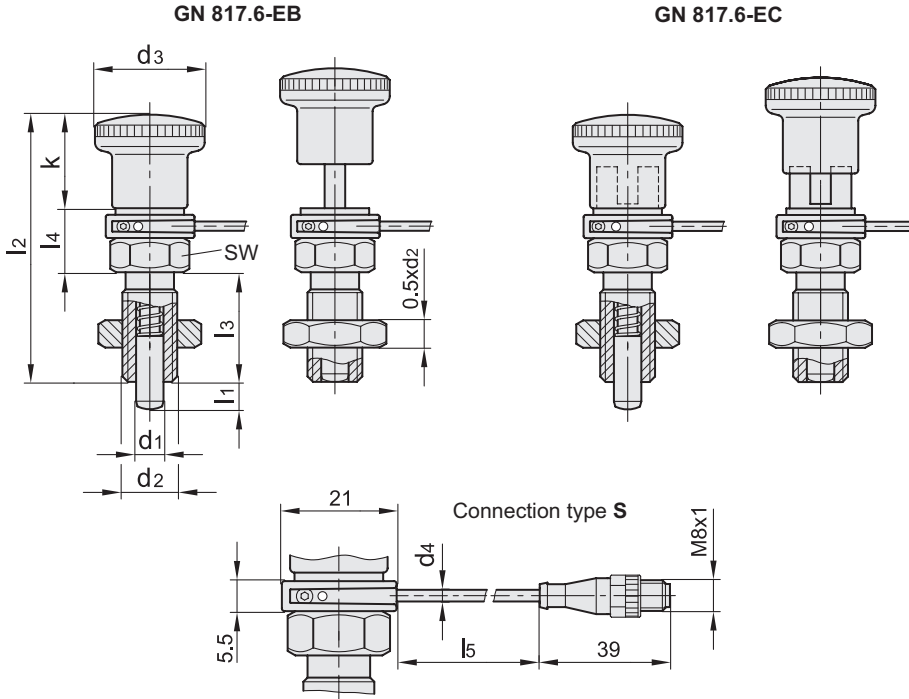
ASSEMBLY INSTRUCTIONS

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.



Electrical properties of the sensor

Output function	Normally open (NO)	
Switching transistor	PNP	
Supply voltage	10 - 30 V DC	
Continuous current I_a	≤ 100 mA	
Type of connection (S):	3-pole M8x1 circular connector with locking nut and 0.5 m long PUR cable	
Degree of environmental protection	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		



GN 817.6-EB



Code	Description	d1		d2	d3	d4	k	l1	l2	l3	l4	l5	sw	Spring preload [N]	Spring max load [N]	⚖️
		Pin -0.02 -0.05	Hole H7													
GN.35481	GN 817.6-4-6-EB-S-0,5	4	M8x1	16	2	14	6	41.5	16	11.5	500	10	4	12.5	27	
GN.35483	GN 817.6-5-8-EB-S-0,5	5	M10x1	19	2	16	8	46.5	18	12.5	500	12	5	18	39	
GN.35485	GN 817.6-6-9-EB-S-0,5	6	M12x1.5	23	2	20	9	54.5	22	12.5	500	14	6	25	56	
GN.35487	GN 817.6-8-12-EB-S-0,5	8	M16x1.5	28	2	24	12	64.5	22	14.5	500	17	8.5	28	105	
GN.35489	GN 817.6-10-12-EB-S-0,5	10	M16x1.5	28	2	24	12	64.5	26	14.5	500	17	9.5	38	106	
GN.35491	GN 817.6-12-15-EB-S-0,5	12	M20x1.5	33	2	28.5	15	78	33	16.5	500	22	11.5	40	200	
GN.35493	GN 817.6-16-20-EB-S-0,5	16	M24x2	33	2	28.5	20	85	38	18.5	500	27	13	54	313	

GN 817.6-EC



Code	Description	d1		d2	d3	d4	k	l1	l2	l3	l4	l5	sw	Spring preload [N]	Spring max load [N]	⚖️
		Pin -0.02 -0.05	Hole H7													
GN.35482	GN 817.6-4-6-EC-S-0,5	4	M8x1	16	2	14	6	41.5	16	11.5	500	10	4	12.5	29	
GN.35484	GN 817.6-5-8-EC-S-0,5	5	M10x1	19	2	16	8	46.5	18	12.5	500	12	5	18	42	
GN.35486	GN 817.6-6-9-EC-S-0,5	6	M12x1.5	23	2	20	9	54.5	22	12.5	500	14	6	25	60	
GN.35488	GN 817.6-8-12-EC-S-0,5	8	M16x1.5	28	2	24	12	64.5	22	14.5	500	17	8.5	28	111	
GN.35490	GN 817.6-10-12-EC-S-0,5	10	M16x1.5	28	2	24	12	64.5	26	14.5	500	17	9.5	38	112	
GN.35492	GN 817.6-12-15-EC-S-0,5	12	M20x1.5	33	2	28.5	15	78	33	16.5	500	22	11.5	40	212	
GN.35494	GN 817.6-16-20-EC-S-0,5	16	M24x2	33	2	28.5	20	85	38	18.5	500	27	13	54	329	

