

SS Stainless Steel

- 4 Type**
 - EB** Non lock-out, with position monitoring
 - EC** Lock-out, with position monitoring
- 5 Connection type**
 - S** Plug

Metric table

1 d₁ Pin <small>-0.02 -0.05</small> Bore H7	2 l₁	3 d₂ Thread	6 l₅ Cable length in meters	d₃	d₄	k	l₂	l₃	l₄	A/F	Spring load ≈	
											Initial	End
4 <i>0.16</i>	6 <i>0.24</i>	M 8 x 1	0.5	16 <i>0.63</i>	2 <i>0.08</i>	14 <i>0.55</i>	41.5 <i>1.63</i>	16 <i>0.63</i>	11.5 <i>0.45</i>	10 <i>0.39</i>	4 N <i>0.90 lbf</i>	12.5 N <i>2.81 lbf</i>
5 <i>0.20</i>	8 <i>0.31</i>	M 10 x 1	0.5	19 <i>0.75</i>	2 <i>0.08</i>	16 <i>0.63</i>	46.5 <i>1.83</i>	18 <i>0.71</i>	12.5 <i>0.49</i>	12 <i>0.47</i>	5 N <i>1.12 lbf</i>	18 N <i>4.05 lbf</i>
6 <i>0.24</i>	9 <i>0.35</i>	M 12 x 1.5	0.5	23 <i>0.91</i>	2 <i>0.08</i>	20 <i>0.79</i>	54.5 <i>2.15</i>	22 <i>0.87</i>	12.5 <i>0.49</i>	14 <i>0.55</i>	6 N <i>1.35 lbf</i>	25 N <i>5.62 lbf</i>
8 <i>0.31</i>	12 <i>0.47</i>	M 16 x 1.5	0.5	28 <i>1.10</i>	2 <i>0.08</i>	24 <i>0.94</i>	64.5 <i>2.54</i>	26 <i>1.02</i>	14.5 <i>0.57</i>	17 <i>0.67</i>	8.5 N <i>1.91 lbf</i>	28 N <i>6.29 lbf</i>
10 <i>0.39</i>	12 <i>0.47</i>	M 16 x 1.5	0.5	28 <i>1.10</i>	2 <i>0.08</i>	24 <i>0.94</i>	64.5 <i>2.54</i>	26 <i>1.02</i>	14.5 <i>0.57</i>	17 <i>0.67</i>	9.5 N <i>2.14 lbf</i>	38 N <i>8.54 lbf</i>
12 <i>0.47</i>	15 <i>0.59</i>	M 20 x 1.5	0.5	33 <i>1.30</i>	2 <i>0.08</i>	28.5 <i>1.12</i>	78 <i>3.07</i>	33 <i>1.30</i>	16.5 <i>0.65</i>	22 <i>0.87</i>	11.5 N <i>2.59 lbf</i>	40 N <i>8.99 lbf</i>
16 <i>0.63</i>	20 <i>0.79</i>	M 24 x 2	0.5	33 <i>1.30</i>	2 <i>0.08</i>	28.5 <i>1.12</i>	85 <i>3.35</i>	38 <i>1.50</i>	18.5 <i>0.73</i>	27 <i>1.06</i>	13 N <i>2.92 lbf</i>	54 N <i>12.14 lbf</i>

Dimensions in: millimeters - inches

Specification

- Stainless steel threaded body
European Standard No. 1.4305 (AISI 303)
Plunger pin chemically nickel plated
- Plastic knob
Technopolymer (Polyamide PA)
- Black, matte finish
- Not removable
- Hard ferrite magnet
- Plastic sensor / sensor clip
Technopolymer (Polyamide PA)
Black, matte finish
- Polyurethane PUR cable (outer sheath), black
- Stainless steel lock nut, A2
DIN 439 B / ISO 8675
- RoHS compliant

Information

GN 817.6 indexing plungers 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 stroke l_1 .

The sensor electronics then outputs a high signal, e.g. to a machine control, and indicates this switch state with an LED on the sensor.

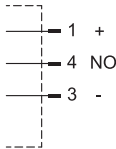
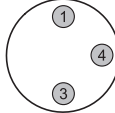
To prevent faults, no external magnetic fields should be acting on the indexing plunger. The GN 817.6 stainless steel indexing plungers are delivered with enclosed sensor (not installed), sensor clip, Allen® wrench and hexagon nut.

see also...

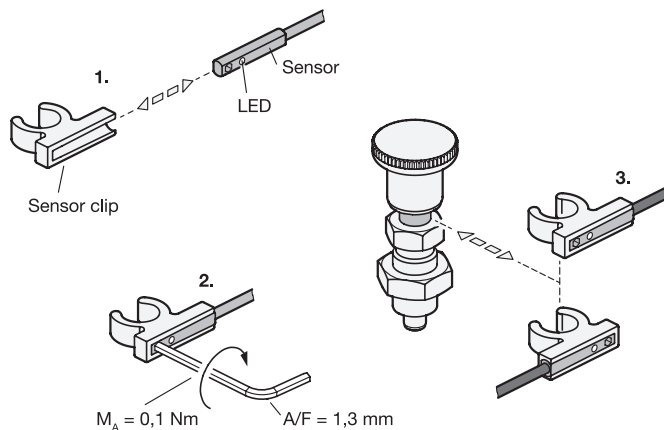
- *List of Indexing Plunger Types*
- *Indexing Plungers GN 717 / GN 817 (Steel / Stainless Steel)*
- *Cables with Connector Coupling GN 330*

<p>How to order</p> <p>GN 817.6-10-12-M16X1.5-EB-S-0.5</p>	1	Pin diameter d₁
	2	Stroke l₁
	3	Thread d₂
	4	Type
	5	Connection type
	6	Cable length l₅

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	-13 °F to +167 °F (-25 °C to +75 °C)	
Shock and vibration resistance	30 g, 11 ms / 10 - 55 Hz, 1 mm	
EMC	According to EN 60947-5-2	
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 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 slot of the indexing plunger in any orientation and then adjust the direction by turning, if necessary.