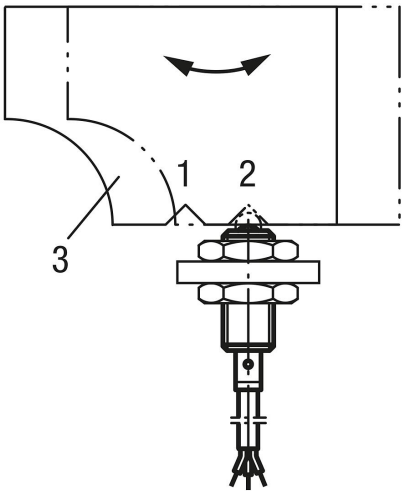
Item description/product images



Description

Product description:
In addition to their mechanical function as an indexing and positioning element, spring plungers with status sensor are used to detect whether a component is in the desired position or not.
The sensor recognises whether the thrust pin is retracted or extended and enables this status information to be electronically processed.

Material:
Sleeve, thrust pin and spring, steel.
Status sensor stainless steel.

Version:
Black oxidised.
Thrust pin hardened.

Note:
An electric control signal can be transmitted via the built-in limit switch.
Voltage: U = 10 – 30 V DC
Current: I max. = 200 mA
Temperature range: -25 °C – +70 °C
Rating: IP 67
The status sensor activates at a travel of H.

Technical data:
Inductive sensor:
Output rely: PNP normally open (NO) or normally closed (NC)
Operating voltage: 10 – 30 V DC
Operating current: <200 mA
Switch gap: 0.8 mm
Switching frequency: 2000 Hz
Short-circuit proof: yes
Reverse polarity protected: yes
IP rating: IP 67
Connection type: 2 m PVC cable
Approval: CE

Application:
Spring plungers with status sensor enable status-dependent process control. It can be ensured that a workpiece or moving component is in the desired location.

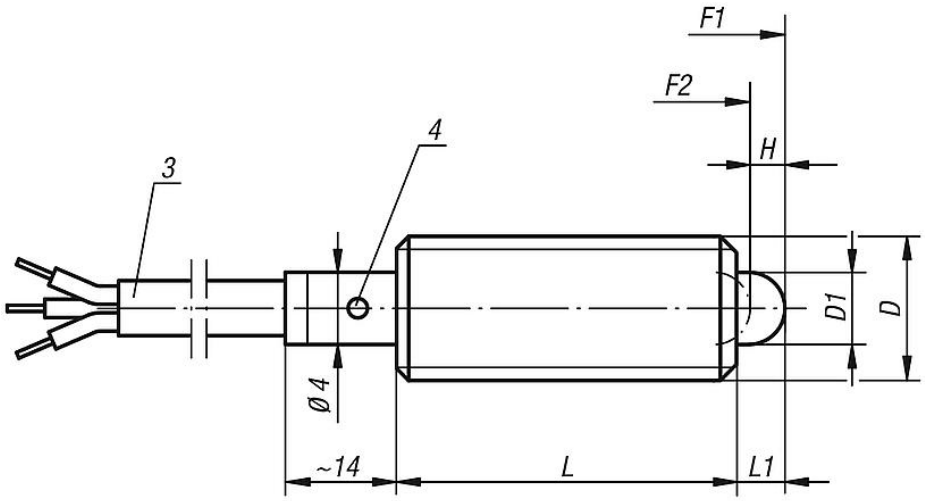
Safety:
spring plunger with status sensor are not suitable for safeguarding persons.

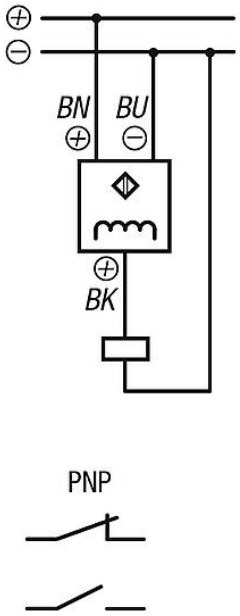
Drawing reference:
4) LED-indicator

BN = brown
BK = black
BU = blue

Example of position feedback:
Pos. 1: slide engaged
Pos. 2: slide disengaged
3) Slide

Drawings





Overview of items

Order No.	Version 2	D	D1	H	L	L1	Switching contact from stroke H1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
03020-5061	normally closed	M6	2,7	2	27	3	1,2 - 1,6	7	20
03020-5081	normally closed	M8	4	2	29	3	1,2 - 1,8	15	30
03020-5101	normally closed	M10	4,5	3	36	4	2,2 - 2,8	26	44
03020-5062	normally open	M6	2,7	2	27	3	1,2 - 1,6	7	20
03020-5082	normally open	M8	4	2	29	3	1,2 - 1,8	15	30
03020-5102	normally open	M10	4,5	3	36	4	2,2 - 2,8	26	44