

# Indexing plunger

with status sensor



Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. Some examples of this are for length, height and position locking in machines, equipment, furniture and special vehicle construction.

For indexing plungers with status sensor, the actuation status can be detected and processed electronically.

The actuation status is transferred wirelessly by Bluetooth to a mobile terminal or the K1494 gateway. The combination of indexing plunger with status sensor and gateway allows the signal to be processed in a machine control system, for example.

Power to the indexing plunger is supplied from an integrated button cell which can be replaced when necessary.

#### Material:

Steel version:  
Threaded sleeve and indexing pin free-cutting steel.

Stainless-steel version:  
Indexing pin hardened:  
Threaded sleeve 1.4305.  
Indexing pin 1.4034.

Indexing pin not hardened:  
Threaded sleeve 1.4305.  
Indexing pin 1.4305.

Mushroom knob and cover thermoplastic.

#### Version:

Steel version:  
Threaded sleeve, black oxidised.  
Indexing pin hardened, ground and black oxidised.

Stainless-steel version:  
Threaded sleeve bright.  
Indexing pin hardened, ground and bright.  
Indexing pin not hardened, ground and bright.

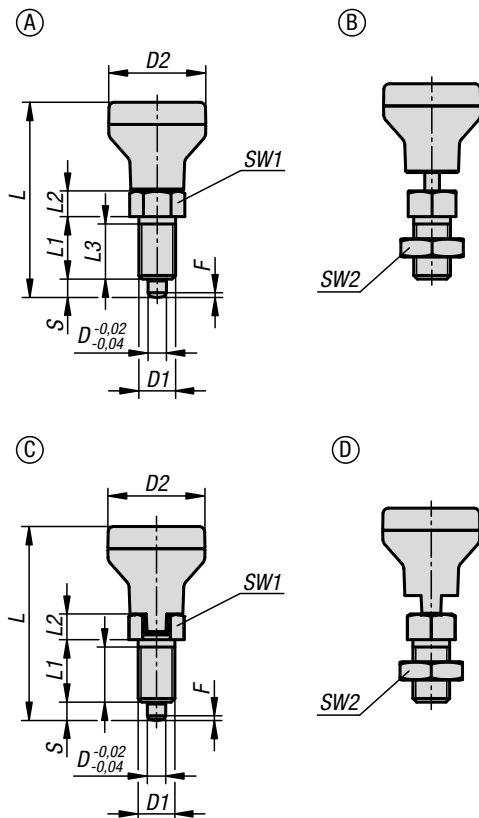
Mushroom knob dark grey.  
Cover translucent grey.

#### Sample order:

K1495.1206

#### Application:

Indexing plungers with status sensor allow actuation-dependent process control. It is also possible to ensure that the indexing pin is in the desired actuation status.



#### Drawing reference:

Form A: non-lockout type, without locknut  
Form B: non-lockout type, with locknut  
Form C: lockout type, without locknut  
Form D: lockout type, with locknut

## Indexing plunger

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### Advantages:

Wireless transfer of actuation status.  
Laborious cable connections no longer necessary.  
Intelligent battery management allows long running time  
No interfering edges.

### Accessories:

K1494 Gateway

### Technical data:

See technical information.

### Safety:

Indexing plungers with status sensor are not suitable for personnel safety functions.

### KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	SW1	SW2	Fx30°	Travel S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1495.1105	K1495.2105	K1495.3105	K1495.4105	5	M10x1	35	57	17	7	15	13	-/17/-/17	1,3	5	5	12
K1495.1206	K1495.2206	K1495.3206	K1495.4206	6	M12x1,5	35	62	20	8	17	14	-/19/-/19	1,8	6	6	14
K1495.1308	K1495.2308	K1495.3308	K1495.4308	8	M16x1,5	35	76	26	10	23	19	-/24/-/24	2,3	8	15	35
K1495.1410	K1495.2410	K1495.3410	K1495.4410	10	M20x1,5	35	82	28	12	25	22	-/30/-/30	2,8	10	15	34
K1495.1412	K1495.2412	K1495.3412	K1495.4412	12	M20x1,5	35	86	28	14	25	22	-/30/-/30	2,8	12	15	39

### KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	SW1	SW2	Fx30°	Travel S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1495.01105	K1495.02105	K1495.03105	K1495.04105	5	M10x1	35	57	17	7	15	13	-/17/-/17	1,3	5	5	12
K1495.01206	K1495.02206	K1495.03206	K1495.04206	6	M12x1,5	35	62	20	8	17	14	-/19/-/19	1,8	6	6	14
K1495.01308	K1495.02308	K1495.03308	K1495.04308	8	M16x1,5	35	76	26	10	23	19	-/24/-/24	2,3	8	15	35
K1495.01410	K1495.02410	K1495.03410	K1495.04410	10	M20x1,5	35	82	28	12	25	22	-/30/-/30	2,8	10	15	34
K1495.01412	K1495.02412	K1495.03412	K1495.04412	12	M20x1,5	35	86	28	14	25	22	-/30/-/30	2,8	12	15	39

### KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	SW1	SW2	Fx30°	Travel S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1495.11105	K1495.12105	K1495.13105	K1495.14105	5	M10x1	35	57	17	7	15	13	-/17/-/17	1,3	5	5	12
K1495.11206	K1495.12206	K1495.13206	K1495.14206	6	M12x1,5	35	62	20	8	17	14	-/19/-/19	1,8	6	6	14
K1495.11308	K1495.12308	K1495.13308	K1495.14308	8	M16x1,5	35	76	26	10	23	19	-/24/-/24	2,3	8	15	35
K1495.11410	K1495.12410	K1495.13410	K1495.14410	10	M20x1,5	35	82	28	12	25	22	-/30/-/30	2,8	10	15	34
K1495.11412	K1495.12412	K1495.13412	K1495.14412	12	M20x1,5	35	86	28	14	25	22	-/30/-/30	2,8	12	15	39

# Technical note on indexing plungers with status sensor K1495



## Technical data:

Power supply		
Battery		VARTA CR2032 3V
Battery life		About 1 year
Battery replacement		through removable cover
Wireless transfer		
Transfer protocol		Bluetooth Low Energy
Transmission frequency	[GHz]	2.4
Range	[m]	about 10
Transfer rate	[1/s]	10
Displays / control elements		
LED blue		Flashing quickly: pairing mode active Flashing slowly: battery needs to be replaced
Environmental conditions		
Application location		For use indoors
Altitude		up to 2000m
Operating temperature	[°C]	0 to 65
Storage temperature	[°C]	-10 to 65
Maximum relative humidity	[%]	80 (without condensation)
Safety rating		IP64 as defined in DIN EN 60529
Approvals / inspections		
Radio licences		Europe, USA, Canada
Electrical safety		EN 61010-1 / EN 61010-2-201
EMV		EN 301 489-1 / EN 301 489-17
Wireless		EN 300 328
Vibration resistance		EN 60068-2-6
Shock resistance		EN 60068-2-27