



## pKT Knob cylinder

The newest and most up-to-date digital cylinder from primion is the pKT Knob cylinder. This is fitted with a MIFARE® reader and product versions include a single-sided knob cylinder, a double-sided knob cylinder and a knob half-cylinder.

Needless to say, the knob cylinder is equipped with the pKT software. In this way, the access rights for the autonomous offline components are administered centrally in the Host system, which means that there is no need to carry out a separate programming of the knob cylinder.

Thanks to its modular construction, the cylinder has flexible deployment options. For example, it can be delivered pre-configured in the standard version but it can also be reconfigured on site or even modified retrospectively. In addition, the mechanical knob is available in different shapes, and depending on your requirements, you can choose between a cone-shaped knob, a contoured knob or a knob with a recessed grip.

The pKT Knob cylinder contains the complete read and control electronics as well as the power supply, using standard CR2 batteries. Installation and battery change can be done easily using the special tools.

The pKT Knob cylinder has been developed for use in locks in standard doors, fire-protection doors, emergency exit route doors and glass doors. The half-cylinder is designed for use with key-switch locks and doors that are lockable only on one side. All pKT Knob cylinders are constructed principally for internal use. They can however be used outdoors in locations that are protected from the weather.

### Features

- ▶ Use of existing cards/key fobs as virtual information carriers, e.g. battery status, automatic booking transfer, blacklist
- ▶ Individual access rights per cardholder
- ▶ No authorisations are stored in the cylinder
- ▶ Automatic, time-controlled unlocking and locking
- ▶ Toggle mode option (unlock permanently with first booking, lock with next, unlock with next, etc.)
- ▶ Optical and acoustic signalling to confirm commands and to show the battery warning status
- ▶ Emergency opening option with special tools for battery change
- ▶ Profile cylinder with Euro profile in compliance with DIN 18252
- ▶ Battery working life approx. 3 years at 10 operations per day (overall up to 50,000 operations)
- ▶ Access rights are administered in the Host system
- ▶ Reaction time, typically 1 second
- ▶ Half-cylinder applications are also possible
- ▶ Suitable for use on fire and escape doors

## Technical data

<b>Power supply</b>	2 x 3V CR2 Lithium batteries for each electronic knob
<b>Operating temperature</b>	-20 °C to + 55 °C
<b>Operating humidity</b>	max. 95 %, non-condensing
<b>Protection class (in acc. DIN EN 60529)</b>	IP66 for the standard version of the knob cylinder IP65 for the knob cylinder with spindle extension IP44 for APS knob cylinder
<b>Fire-resistance grading</b>	T30 in accordance with DIN EN 1634-1
<b>Approvals, Norms, Directives</b>	CE conformity RED Directive 2014/53/EU RoHS Directive 2002/95/EC DIN EN 15684; 2013-1 SKG-AE 3104 (in preparation)
<b>Transponder technology</b>	MIFARE® DESFire®; MIFARE CLassic®
<b>Interface</b>	NFC interface, in accordance with ISO 14443A
<b>Reading distance</b>	Up to 15 mm, according to the structured shape of the transponder

<b>Permitted install positions</b>	All cylinder versions	
	Cylinder version "without rotation block"	
	(All install positions allowed)	

<b>Mechanical knobs</b>	<ul style="list-style-type: none"> <li>- Cone-shaped (KKN)</li> <li>- Contoured (FKN)</li> <li>- With recessed grip (GKN)</li> </ul>	KKN:  FKN:  GKN:
-------------------------	--	------------------

<b>Dimensions (mm)</b>	<b>Knob cylinder, single-sided</b>	<b>Housing length total (In/Out)</b>
		1) 60-240 — 30-120 / 30-120 2) 60-160 — 30-80 / 30-80 3) 60-160 — 30-80 / 30-80

<b>Dimensions (mm)</b>	<b>Knob cylinder, double-sided</b>	<b>Housing length total (In/Out)</b>
		1) 60-240 — 30-120 / 30-120 2) 90-160 — 60-80 / 30-80 (incl. 30 mm APS reset module on the inside) 3) 60-160 — 30-80 / 30-80

<b>Dimensions (mm)</b>	<b>Half-cylinder</b>	<b>Housing length (Out)</b>
		1) 30-120 2) 60-80 (incl. 30 mm APS reset module) 3) 30-80

1) Standard version  
2) APS version  
3) FZG version

## Options

### pKT Knob cylinder

**Single-sided authorisation check:** Battery-operated knob cylinder with electronic external knob and mechanical internal knob  
or

**Double-sided authorisation check:** Battery-operated knob cylinder with electronic external and internal knob

Cylinder bodies can be modularly extended in 5 mm steps, up to 120 mm.  
(Tested in accordance with DIN EN 15684 2013-1)

**Versions:**

- Standard
- SKG\*\*\*
- Free-running cylinder, checked in accordance with FZG RL 2010
- Without rotation block (all install positions allowed)
- APS Emergency exit route (for locks and escutcheons in acc. DIN EN 179 and DIN EN 1125)
- Electronic module spindle extension 5/10/15 mm  
(For installation in doors with pull-out protection escutcheons, cylinder covers or tubular frame doors with a round cylinder cut-out on the outside)
- Waterproof

### pKT Knob half-cylinder

Battery-operated single-side cylinder with removable knob

Cylinder bodies can be modularly extended in 5 mm steps, up to 75 mm.  
(Tested in accordance with DIN EN 15684 2013-1)

**Versions:**

- Standard
- SKG\*\*\*
- Free-running cylinder, checked in accordance with FZG RL 2010
- Without rotation block (all install positions allowed)
- Electronic module spindle extension 5/10/15 mm  
(For installation in doors with pull-out protection escutcheons, cylinder covers or tubular frame doors with a round cylinder cut-out on the outside)
- Waterproof

### pKT Knob cylinder CHR (Swiss round cylinder)

Product information about the CHR version of the pKT Knob cylinder is available on request.

**Following product versions can be ordered:**

- Knob cylinder CHR, single-sided authorisation
- Knob cylinder CHR, double-sided authorisation
- Knob half-cylinder CHR

**Versions:**

- Standard
- Waterproof

## Ordering Information

### pKT Knob cylinders

- I177-1000EX.01 — pKT Knob cylinder, single-sided authorisation, length 30/30 mm
- I177-1000BX.01 — pKT Knob cylinder, double-sided authorisation, length 30/30 mm
- I177-1001.01 — Knob cylinder extension, 65 to 80 mm
- I177-1002.01 — Knob cylinder extension, 85 to 110 mm
- I177-1003.01 — Knob cylinder extension, 115 to 120 mm
- I177-1004.01 — Special lengths, with an overall length from 120 to 140 mm (on request)

### pKT Knob half-cylinders

- I177-1009X.01 — pKT Knob half-cylinder, length 30 mm
- I177-1010.01 — Knob half-cylinder extension, 35 to 40 mm
- I177-1011.01 — Knob half-cylinder extension, 45 to 55 mm
- I177-1012.01 — Knob half-cylinder extension, 60 to 75 mm
- I177-1013.01 — Special lengths, with an overall length over 75 mm (on request)

### pKT Knob cylinder CHR (Swiss round cylinder)

- I177-2010EX.01 — pKT Knob cylinder CHR, single-sided authorisation, length 30/30 mm
- I177-2019X.01 — pKT Knob half-cylinder CHR, length 30 mm

### Additional equipment for pKT Knob cylinders and Knob half-cylinders

- I177-1006.01 — Supplement for cylinder with SKG core drilling protection (in preparation)
- I177-1007.01 — Supplement for cylinder with APS function, emergency exit route
- I177-1014.01 — Supplement for cylinder with cylinder extension
- I177-1015.01 — Supplement for cylinder with rotation block
- I177-1016.01 — Supplement for cylinder with FZG option
- I177-1019.01 — Supplement for cylinder with Waterproof function

### Accessories (valid for all knob versions)

- Z071-040.01 — Battery set for pKT Digital cylinders (2 x CR2 3V)
- I177-1108.01 — Electronic knob; PU 5 pcs.
- I177-1102.01 — Electronic module, Standard, PU 5 pcs.
- Z220-070.01 — Knob cylinder battery change tool kit
- Z220-071.01 — Electronic knob spare parts set
- Z220-072.01 — Electronic knob disassembly tool, 90°, PU 5 pcs.
- Z090-390.01 — NFC stick (incl. USB extension cable) for firmware updates (service engineer)