

pKT Digital cylinder G4

(Version for outdoor deployment)

The pKT Digital Cylinder G4 is installed instead of the usual profile cylinder. It is fitted with a MIFARE® DESFire® EV1 or a LEGIC® advant reader. It reads the access rights that have been written onto an access credential by a Master reader, with an online connection to the central database, and grants or denies access accordingly. These access rights are made up of several time periods whose overall validity can be set as required. If the credential is not presented to a Master reader for updating before this period has elapsed, the credential and therefore the cardholder automatically loses all access rights to the offline components.

As the access administration is fully integrated in the online system, the access rights of the autonomous offline units are handled easily and comfortably throughout the whole system. There is no requirement for individual programming of the door terminal, e.g. through a mobile programming unit.

The last 160 transactions (depending on the system configuration) are stored in the device. This data can automatically be written back to the employee credential at the time of the transaction and then transmitted to the central database the next time it is presented to a Master reader. Additionally, the data can be read out from the offline component at any time using a special transactions transfer card and also transmitted to the central database through a Master reader for further evaluation. Relevant data protection guidelines are taken into account in relation to this transfer of data.

The electronic knob module contains the complete read and control electronics as well as the power supply, using standard CR2 batteries. Installation and battery change are easily done using the special, system-initialised card and tools.

Features

- ▶ Credential used as information carrier, e.g. battery status, automatic booking transfer, blacklist
- ▶ The electronic knob module can be installed on both sides (from an overall length of 70 mm)
- ▶ Individual access rights per person
- ▶ No authorisations are stored in the cylinder
- ▶ Automatic time-controlled opening and closing
- ▶ Toggle mode option (unlock with first booking, lock with next, unlock with next, etc.)
- ▶ Optical and audible messaging (green & red LEDs) to confirm commands and to show the battery warning status
- ▶ Emergency opening option with external emergency power tool (Low Power Adapter)
- ▶ Bolt lengths from 35 mm. Applications should be checked on case-by-case basis
- ▶ Fits all standard profile cylinder doors in compliance with DIN 18252
- ▶ Battery working life approx. 2 years at 20 transactions per day
- ▶ Administration of access rights in the host system
- ▶ Half-cylinder applications are also possible
- ▶ Suitable for use on fire and emergency exit doors
- ▶ Sealed, water-protected knob in housing with IP66 protection class
- ▶ Suitable for installation indoors and outdoors

Technical Data

Dimensions	Dimensions of the cylinder for Europrofile locks (DIN 18252)	
Housing	Cylinder and knob housing	Brass, surface nickel-plated
	Front element	Hard plastic
Electronic knob module	Knob length	44.8 mm
	Ø Knob	45 mm
Mechanical knob	Knob length	20 mm
	Ø Knob	29.5 mm
Protection class	IP66	
Operational ambient temperature	-25° C to +65° C	
Technologies	MIFARE® DESFire® EV1 or LEGIC® advant	
Read distance	MIFARE® DESFire® EV1	Key fobs / cards, typically < 5mm
	LEGIC® advant	Key fobs / cards, typically 10 mm
Batteries	2 x CR2 3 V Lithium	
Low power opening	Always possible with external power source	
Installation site	When deployed outdoors, the relevant external conditions must be checked	

The device fulfils the specifications of DIN EN 60721-3-3:1995/A2:1997, Class 3K6 (exterior).

Ordering Information

Knob module – pKT Knob module, with light ring, 128 KB Flash

I171-00204.02 — LEGIC® advant, for outdoor deployment, with logo

I172-00204.02 — MIFARE® DESFire® EV1, for outdoor deployment, with logo

Inside knob – Mechanical inside knob for cylinder adapter

Z220-004.01 — Ø 29.5 mm

Z220-004.02 — Ø 34 mm

Accessories

Z220-002.02 — Battery change tool

Z220-012.01 — Deinstallation tool for emergency power contacts

Z220-013.02 — Low Power Adapter for G4 + G3 knob module

Z220-001.01 — Wireless adapter with diagnostics / programming unit (incl. USB interface) for technicians

Z071-040.01 — Battery set for pKT Digital cylinder, 2 x CR2 3 V

H14108-0002.01 — pKT Padlock, shackle height 51 mm, with integrated half-cylinder (without knob module)

H14108-0003.01 — pKT Padlock, shackle height 31 mm, with integrated half-cylinder (without knob module)

H12108-0004.01 — Cabinet Lock adapter 7 mm for doors 13-20 mm

Half-cylinder adapter G4 / G3

	Measurement A in mm	Measurement B in mm	Total length in mm
Z221-056.01	30	10	40
Z221-057.01	35	10	45
Z221-058.01	40	10	50
Z221-059.01	45	10	55

(Please refer to next page for further sizes)

Ordering Information

Cylinder adapter G4 / G3

	Measurement		Total length in mm
	A in mm	B in mm	
Z221-001.01	26	26	52
Z221-002.01	26	30	56
Z221-003.01	26	35	61
Z221-004.01	26	40	66
Z221-005.01	26	45	71
Z221-006.01	26	50	76
Z221-007.01	26	55	81
Z221-008.01	26	60	86
Z221-009.01	26	65	91
Z221-010.01	26	70	96
Z221-011.01	30	30	60
Z221-012.01	30	35	65
Z221-013.01	30	40	70
Z221-014.01	30	45	75
Z221-015.01	30	50	80
Z221-016.01	30	55	85
Z221-017.01	30	60	90
Z221-018.01	30	65	95
Z221-019.01	30	70	100
Z221-020.01	35	35	70
Z221-021.01	35	40	75
Z221-022.01	35	45	80
Z221-023.01	35	50	85
Z221-024.01	35	55	90
Z221-025.01	35	60	95
Z221-026.01	35	65	100
Z221-027.01	35	70	105
Z221-028.01	40	40	80
Z221-029.01	40	45	85
Z221-030.01	40	50	90
Z221-031.01	40	55	95
Z221-032.01	40	60	100
Z221-033.01	40	65	105
Z221-034.01	40	70	110
Z221-035.01	45	45	90
Z221-036.01	45	50	95
Z221-037.01	45	55	100
Z221-038.01	45	60	105
Z221-039.01	45	65	110
Z221-040.01	45	70	115
Z221-041.01	50	50	100
Z221-042.01	50	55	105
Z221-043.01	50	60	110
Z221-044.01	50	65	115
Z221-045.01	50	70	120
Z221-046.01	55	55	110
Z221-047.01	55	60	115
Z221-048.01	55	65	120
Z221-049.01	55	70	125
Z221-050.01	60	60	120
Z221-051.01	60	65	125
Z221-052.01	60	70	130
Z221-053.01	65	65	130
Z221-054.01	65	70	135
Z221-055.01	70	70	140

Anti-panic-cylinder G4 / G3

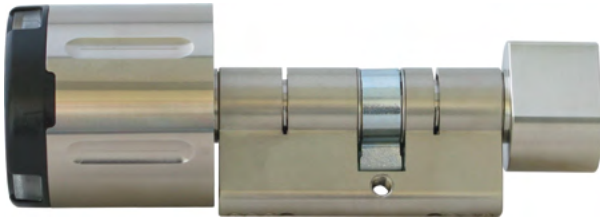
	Measurement		Total length in mm
	A in mm	B in mm	
Z221-500.01	30	30	60
Z221-501.01	30	35	65
Z221-502.01	30	40	70
Z221-503.01	30	45	75
Z221-504.01	30	50	80
Z221-505.01	35	30	65
Z221-506.01	35	35	70
Z221-507.01	35	40	75
Z221-508.01	35	45	80
Z221-509.01	35	50	85
Z221-510.01	40	30	70
Z221-511.01	40	35	75
Z221-512.01	40	40	80
Z221-513.01	40	45	85
Z221-514.01	40	50	90
Z221-515.01	45	30	75
Z221-516.01	45	35	80
Z221-517.01	45	40	85
Z221-518.01	45	45	90
Z221-519.01	45	50	95
Z221-520.01	50	30	80
Z221-521.01	50	35	85
Z221-522.01	50	40	90
Z221-523.01	50	45	95
Z221-524.01	50	50	100
Z221-526.01	55	55	110
Z221-527.01	60	30	90
Z221-528.01	55	40	95
Z221-529.01	30	55	85
Z221-530.01	55	30	85
Z221-531.01	30	70	100
Z221-533.01	40	65	105
Z221-534.01	45	55	100
Z221-535.01	40	55	95
Z221-536.01	45	80	125
Z221-537.01	50	75	125
Z221-538.01	60	65	125
Z221-540.01	60	35	95
Z221-541.01	50	55	105
Z221-542.01	65	60	125
Z221-543.01	35	65	100
Z221-544.01	65	35	100 ¹⁾
Z221-545.01	80	45	125 ¹⁾
Z221-556.01	30	40	70 ²⁾
Z221-557.01	40	30	70 ²⁾
Z221-559.01	35	75	110
Z221-562.01	55	35	90
Z221-569.01	55	45	100 ³⁾
Z221-570.01	60	60	120 ³⁾
Z221-571.01	35	90	125 ³⁾
Z221-572.01	35	90	125 ³⁾⁴⁾
Z221-573.01	50	90	140 ³⁾⁴⁾
Z221-576.01	35	55	90

1) Panic function – Inside knob
2) Digital cylinder brass

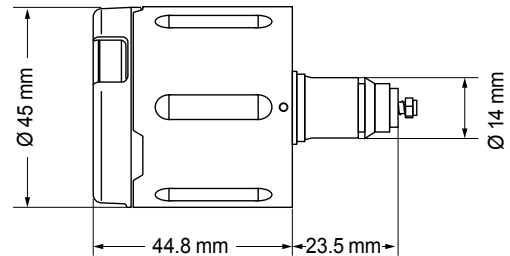
3) Cylinder adapter special length 35
4) B not fixed-mounted

Ordering example:

pKT Digital cylinder G4 with MIFARE® DESFire® EV1 Module



Electronic knob module	Measurement A in mm	Measurement B in mm	Mechanical inside knob
I172-00204.01	40	30	Z220-004.01
Reversible cylinder adapter			
Z221-013.01			



Cylinder adapter length calculation

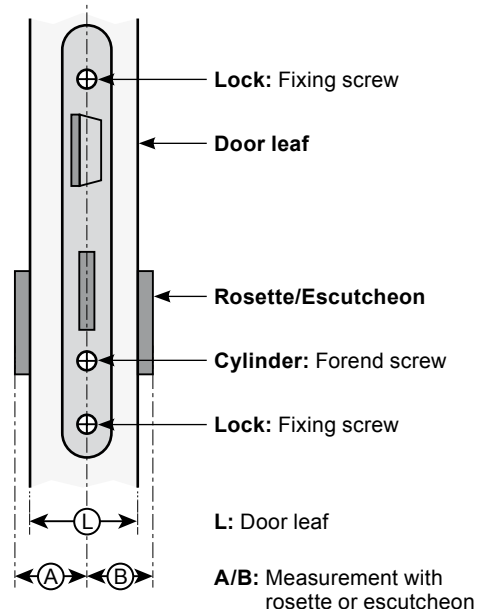
- ▶ Measurement A = Outside/electronic knob module
- ▶ Measurement B = Inside/mechanical knob module

Notes:

- ▶ The measurement goes from the middle of the forend screw to the outer edge of the rosette or escutcheon.
- ▶ A door fitted with panic function (emergency exit door) must be fitted with a panic lock and panic cylinder adapter. The mechanical inside knob on the panic cylinder adapter is already fixed-mounted onto the panic cylinder adapter. Important when ordering: Measurement B = Inside knob (see previous page for the part number)

Please side:

If a pKT knob module is being fitted to both sides of the door, the overall length must be at least 70 mm.



! Safety advice
In order to guarantee increased security, a security escutcheon should be installed if the locking cylinder protrudes from the surface of the door.

! Safety advice
In order to avoid the possibility of hand injuries when opening and closing the door and to increase the user comfort, there should be a safety distance between the handle and the door frame. This must be at least 25 mm, to comply with GUV-V SI*.

* GUV: German accident insurance Health & Safety regulations.

! Safety advice
When the cylinder is operated in combination with an anti-panic lock, it must be guaranteed that at every position, the cylinder lock catch can be opened safely and/or is not damaged. Measurements A and B may not be swapped! Please see previous page for measurements and part numbers