

MAGNETIC GRIPPER

SERIES HPM2000

▶ PRODUCT ADVANTAGES



▶ **Secure hold during EMERGENCY STOP**

The battery cell is held securely by the permanent magnet even in the event of a pressure drop





▶ **Secure query**

The solenoid position and battery cell can be queried to ensure that the battery cell is applied and the solenoid is activated before starting transportation

▶ **Safe against uncontrolled discharge**

The insulating contact surface prevents the battery cell from discharging uncontrollably via the system

▶ SERIES CHARACTERISTICS

Installation size	
HPMXXXX	
 5 million maintenance-free cycles (max.)	●
 Inductive sensor	●
 Magnetic field sensor	●
 IP54	●



► BENEFITS IN DETAIL



- ① **Mounting and positioning**
 - via centering pins and thread
 - Z-compensation available as an accessory
- ② **Energy supply**
 - tubeless possible via adapter plate
- ③ **Sensing slot**
 - Querying the solenoid position via magnetic field sensors
- ④ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑤ **Permanent magnet**
 - requires no power supply
- ⑥ **Contact plate**
 - Suitable for battery cell diameter 46 mm
 - Insulating against the battery cell
 - with centering aid HPM2046N-04-A, without HPM2046N-04-A-01
 - Centering aid enables center offset of up to +/-2 mm
- ⑦ **Query battery cell**
 - Possible via plunger in combination with inductive proximity switch

► TECHNICAL DATA

Installation size	Retention force min.* [N]	Weight [kg]	IP class
HPM2046	65	0,35-0,36	IP54

*measured on round cell, material Hilumin, wall thickness 0.8 mm

► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

MAGNETIC GRIPPER

INSTALLATION SIZE HPM2046

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



ENERGY SUPPLY



GVM5
Straight Fittings - Quick Connect Style



WVM5
Angled Fittings - Quick Connect Style



SENSORS



MFS01-S-KHC-P1-PNP
Magnetic field sensor angled, cable 0.3 m - M8 connector



MFS01-S-KHC-P2-PNP
2-point sensor angled, cable 0.3 m - M8 connector



MFS02-S-KHC-P1-PNP
Magnetic field sensor straight, cable 0.3 m - M8 connector



SENSORS



MFS02-S-KHC-P2-PNP
2-point sensor straight, cable 0.3 m - M8 connector



NJ3-E2
Inductive proximity switch - Cable 5 m



NJ3-E2SK
Inductive Proximity Switch Cable 0,3 m - Connector M8



CONNECTIONS / OTHER



KAG500
Plug-in connector Straight Cable 5m - Socket M8 (female)



ZUB177075
Z-compensation

Order no.	▶ Technical data	
	HPM2046N-04-A	HPM2046N-04-A-01
Retention force min. [N]*	65	65
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	6.5	6.5
Nominal operating pressure [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+50	+50
Air volume per cycle [cm ³]	25	25
Protection to IEC 60529	IP54	IP54
Weight [kg]	0.36	0.35

*measured on round cell, material Hilumin, wall thickness 0.8 mm

