

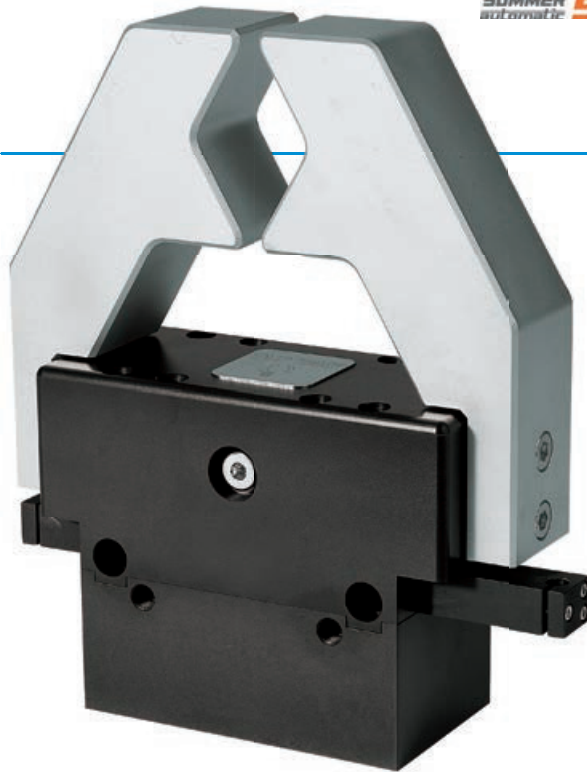
2-JAW PARALLEL GRIPPERS

SERIES GP1800

1

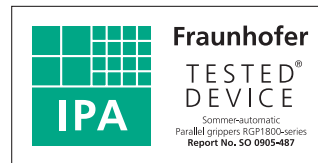
Series GP1800 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The airtight”

- ▶ **Suitable for use under water**
The sealed square guide guarantees process reliability even under the harshest conditions
- ▶ **High moment load**
The overlapping square guide provides the highest possible durability for your application
- ▶ **Variety in the versions**
Corrosion-protected, temperature-resistant or clean-room-compatible for flexible use



▶ THE BEST PRODUCT FOR YOUR APPLICATION



- ▶ **Our products love the challenge!**
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:
Find the best product for your specific use:
www.zimmer-group.de

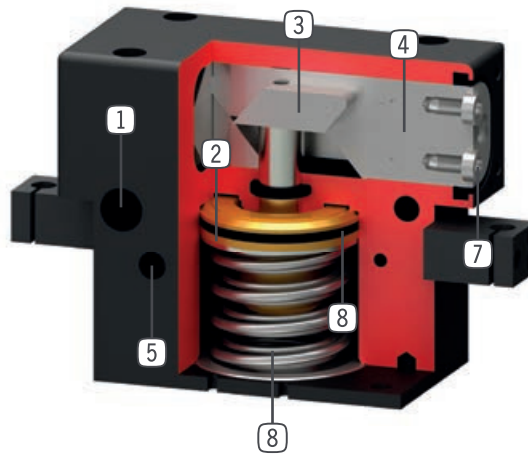
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	<input type="checkbox"/>	GP1803N	<input type="checkbox"/>	-B
Clean room class 4	R			
For external gripping, self-locking, spring closing			C	
For internal gripping, self-locking, spring opening			O	

► BENEFITS IN DETAIL

- | | |
|---|---|
| <p>① Mounting and positioning
- mounting possible from several sides for versatile positioning</p> <p>② Permanent magnet
- installed in piston area</p> <p>③ Wedge hook mechanism
- synchronized the movement of the gripper jaws
- high force transfer</p> <p>④ Sealed and precise square guide
- high forces and moments capacity</p> | <p>⑤ Energy supply
- possible from several sides</p> <p>⑥ Drive
- double-acting pneumatic cylinder</p> <p>⑦ Removable centering sleeves
- quick and cost-effective gripper finger positioning</p> <p>⑧ Integrated gripping force safety device
- optional via intergrated spring (C and O Models)</p> |
|---|---|



► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

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



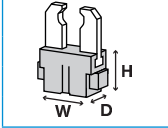
2-JAW PARALLEL GRIPPERS

SERIES GP1800

1

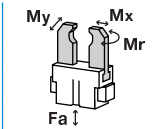
pneumatic / Grippers / 2-Jaw Parallel Grippers / Series GP1800

Installation Size: GP1803



Dimension

Width [mm]	Height ** [mm]	Depth [mm]
50	36.5	24



Force and moment

Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
3	8	4	150

Technical Data*

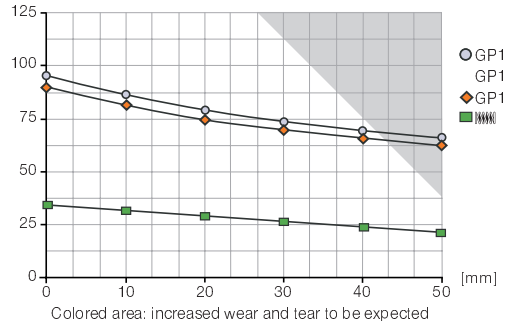
Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1803N-B	3	85	85	0.12
GP1803NC-B	3	90	90	0.13
GP1803NO-B	3	90	90	0.13

*All data measured at 6 bar

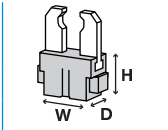
**Version with gripping force protection (NC, NO)

Gripping force diagram

[N] Gripping force as a function finger length.

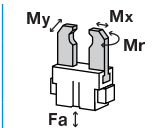


Installation Size: GP1804



Dimension

Width [mm]	Height ** [mm]	Depth [mm]
50	46	27.8



Force and moment

Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
6	12	7	250

Technical Data*

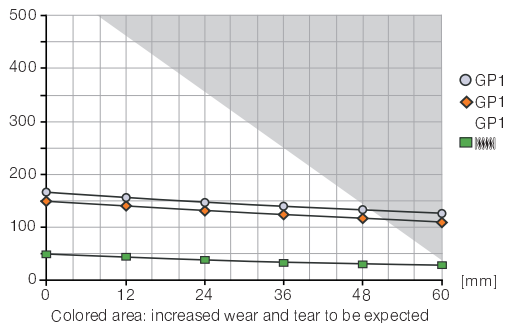
Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1804N-B	4	160	160	0.19
GP1804NC-B	4	155	155	0.22
GP1804NO-B	4	155	155	0.22

*All data measured at 6 bar

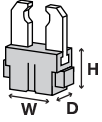
**Version with gripping force protection (NC, NO)

Gripping force diagram

[N] Gripping force as a function finger length.

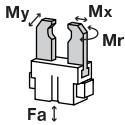


Installation Size: GP1806



Dimension

Width [mm]	Height** [mm]	Depth [mm]
64	55	36



Force and moment

Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
15	30	25	500

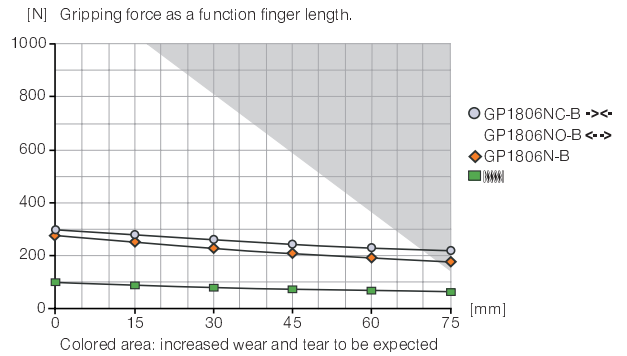
Technical Data*

Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1806N-B	6	280	280	0.4
GP1806NC-B	6		290	0.43
GP1806NO-B	6	290		0.43

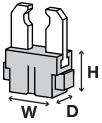
*All data measured at 6 bar

**Version with gripping force protection (NC, NO)

Gripping force diagram

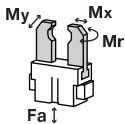


Installation Size: GP1808



Dimension

Width [mm]	Height** [mm]	Depth [mm]
80	67.5	42



Force and moment

Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
25	40	30	750

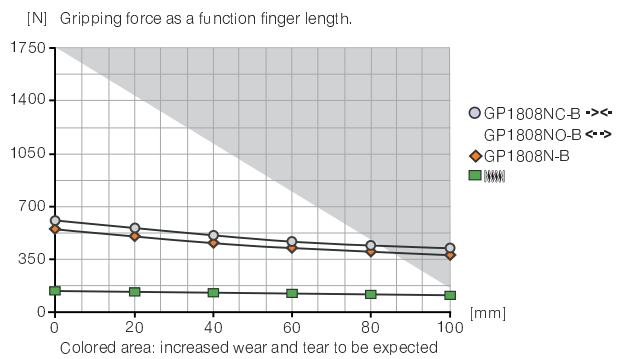
Technical Data*

Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1808N-B	8	550	550	0.64
GP1808NC-B	8		560	0.72
GP1808NO-B	8	560		0.72

*All data measured at 6 bar

**Version with gripping force protection (NC, NO)

Gripping force diagram



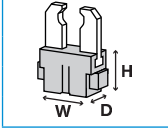
2-JAW PARALLEL GRIPPERS

SERIES GP1800

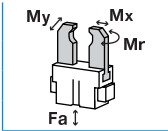
1

pneumatic / Grippers / 2-Jaw Parallel Grippers / Series GP1800

Installation Size: GP1810



Dimension		
Width [mm]	Height** [mm]	Depth [mm]
100	85	50



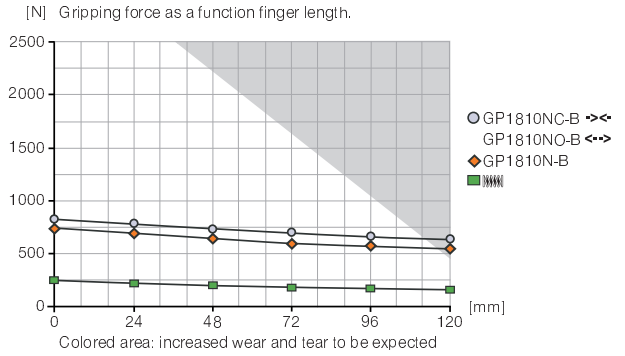
Force and moment			
Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
35	70	45	1200

Technical Data*				
Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1810N-B	10	735	735	1.1
GP1810NC-B	10		780	1.3
GP1810NO-B	10	780		1.3

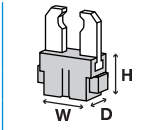
*All data measured at 6 bar

**Version with gripping force protection (NC, NO)

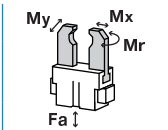
Gripping force diagram



Installation Size: GP1812



Dimension		
Width [mm]	Height** [mm]	Depth [mm]
125	102.5	60



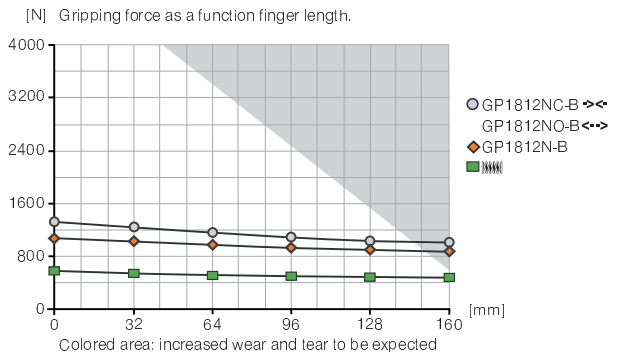
Force and moment			
Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
50	90	60	2000

Technical Data*				
Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1812N-B	12	1165	1165	1.6
GP1812NC-B	12		1400	2.2
GP1812NO-B	12	1400		2.2

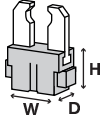
*All data measured at 6 bar

**Version with gripping force protection (NC, NO)

Gripping force diagram

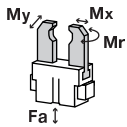


Installation Size: GP1816



Dimension

Width [mm]	Height** [mm]	Depth [mm]
160	124	72



Force and moment

Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
65	120	80	3000

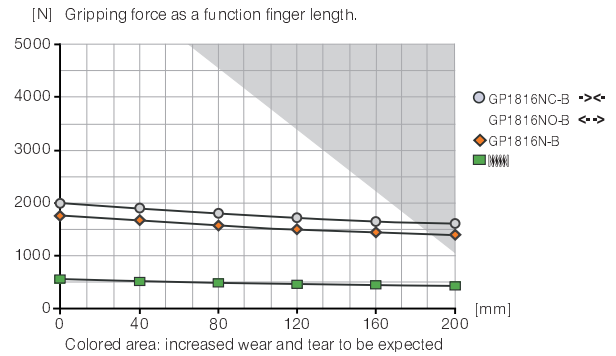
Technical Data*

Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1816N-B	16	1915	1915	3.65
GP1816NC-B	16		2050	4.25
GP1816NO-B	16	2050		4.25

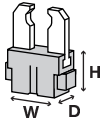
*All data measured at 6 bar

**Version with gripping force protection (NC, NO)

Gripping force diagram

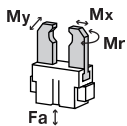


Installation Size: GP1820



Dimension

Width [mm]	Height** [mm]	Depth [mm]
200	146	95



Force and moment

Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
110	170	130	6000

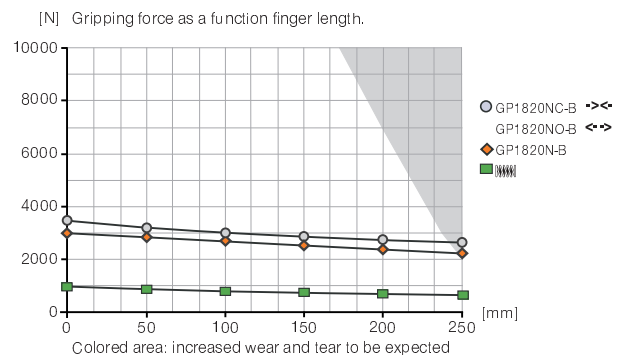
Technical Data*

Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1820N-B	20	3085	3085	6
GP1820NC-B	20		3200	7.65
GP1820NO-B	20	3200		7.65

*All data measured at 6 bar

**Version with gripping force protection (NC, NO)

Gripping force diagram



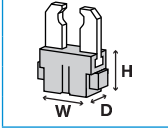
2-JAW PARALLEL GRIPPERS

SERIES GP1800

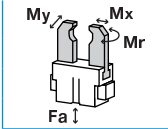
1

Series GP1800 / 2-Jaw Parallel Grippers / pneumatic / Grippers

Installation Size: GP1830



Dimension		
Width [mm]	Height ** [mm]	Depth [mm]
260	214	139



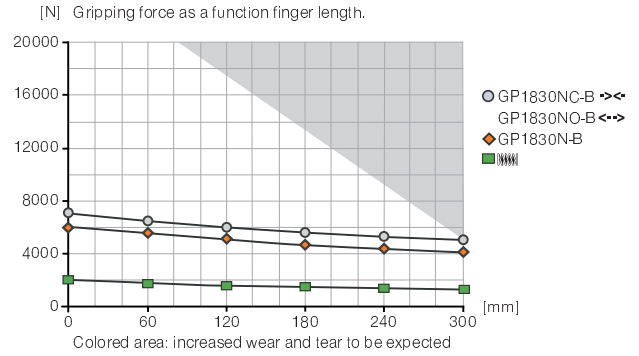
Force and moment			
Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
150	250	180	8000

Technical Data*				
Order no.	Stroke per jaw [mm]	Gripping force [N]		Weight [kg]
		opening	closing	
GP1830N-B	30	6670	6670	16
GP1830NC-B	30		6900	22
GP1830NO-B	30	6900		22

*All data measured at 6 bar

**Version with gripping force protection (NC, NO)

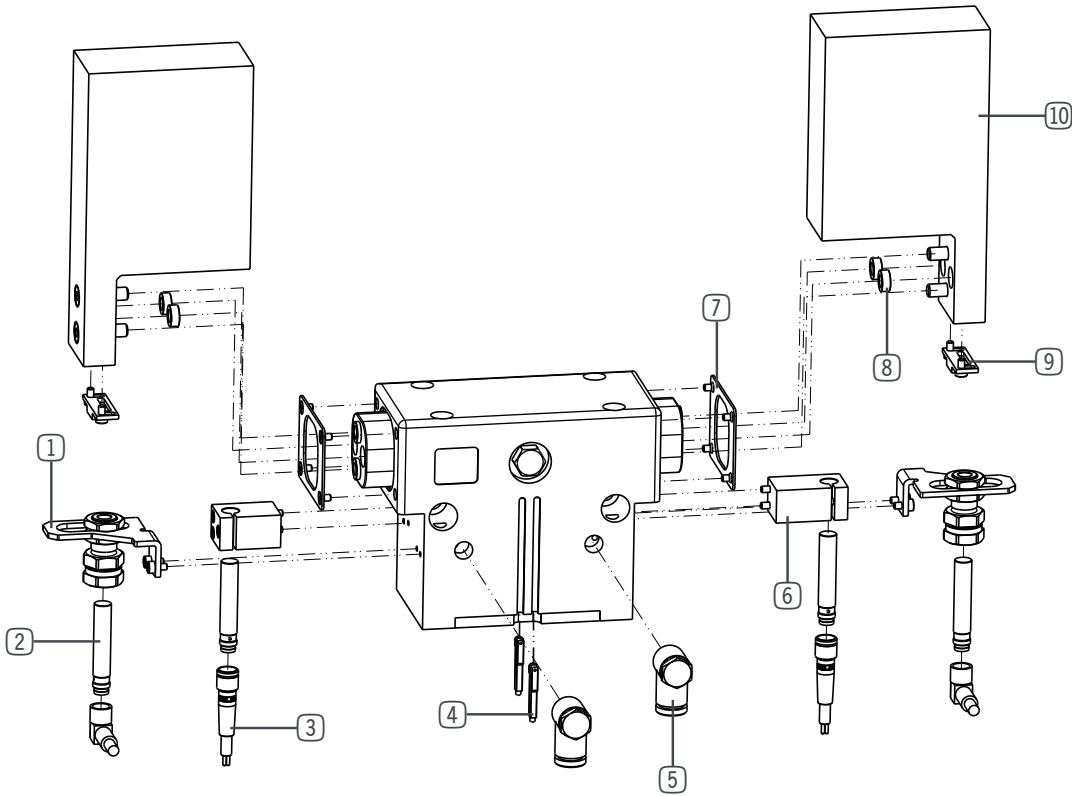
Gripping force diagram



2-JAW PARALLEL GRIPPERS

SERIES GP1800

▶ ACCESSORIES



▶ Installation Size: GP1803

Pos.	Accessories	Order no.
②	Inductive proximity switch - Cable 5 m	NJ3-E2
②	Inductive Proximity Switch Cable 0,3 m - Connector M8	NJ3-E2SK
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
⑤	Straight Fittings - Quick Connect Style	GVM5
⑥	Mounting block	KB1800-01
⑦	Cover plate	ADB1803-B
⑨	Switch cam + screws	SN0001
⑩	Universal Jaw Aluminium	UB1803
⑩	Universal Jaw Steel	UB1803ST
	Delivery contents	Order no.
⑧	Centering Disc	BDST80310

▶ Installation Size: GP1804

Pos.	Accessories	Order no.
②	Inductive proximity switch - Cable 5 m	NJ3-E2
②	Inductive Proximity Switch Cable 0,3 m - Connector M8	NJ3-E2SK
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
⑤	Straight Fittings - Quick Connect Style	GVM5
⑥	Mounting block	KB1800-02
⑦	Cover plate	ADB1804-B
⑨	Switch cam + screws	SN0002
⑩	Universal Jaw Aluminium	UB1804
⑩	Universal Jaw Steel	UB1804ST
	Delivery contents	Order no.
⑧	Centering Disc	BDST40400

► Installation Size: **GP1806**

Pos.	Accessories	Order no.
②	Inductive proximity switch - Cable 5 m	NJ8-E2
②	Inductive proximity switch - Connector M8	NJ8-E2S
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
④	Magnetic field sensor Straight Cable 5 m	MFS204KHC
④	Magnetic field sensor Straight Cable 0,3 m - Connector M8	MFS204SKHC
⑤	Straight Fittings - Quick Connect Style	GVM5
⑥	Mounting block	KB1800-03
⑦	Cover plate	ADB1806-B
⑨	Switch cam + screws	SN0003
⑩	Universal Jaw Aluminium	UB1806
⑩	Universal Jaw Steel	UB1806ST
	Delivery contents	Order no.
⑧	Centering Disc	BDST40600

► Installation Size: **GP1808**

Pos.	Accessories	Order no.
②	Inductive proximity switch - Cable 5 m	NJ8-E2
②	Inductive proximity switch - Connector M8	NJ8-E2S
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
④	Magnetic field sensor Straight Cable 5 m	MFS204KHC
④	Magnetic field sensor Straight Cable 0,3 m - Connector M8	MFS204SKHC
⑤	Straight Fittings - Quick Connect Style	GV1-8X6
⑥	Mounting block	KB1800-03
⑦	Cover plate	ADB1808-B
⑨	Switch cam + screws	SN0004
⑩	Universal Jaw Aluminium	UB1808
⑩	Universal Jaw Steel	UB1808ST
	Delivery contents	Order no.
⑧	Centering Disc	BDST40800

► Installation Size: **GP1810**

Pos.	Accessories	Order no.
①	Alternate proximity bracket	KHA1810-B-8
②	Inductive proximity switch - Cable 5 m	NJ8-E2
②	Inductive proximity switch - Connector M8	NJ8-E2S
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
④	Magnetic field sensor Straight Cable 5 m	MFS204KHC
④	Magnetic field sensor Straight Cable 0,3 m - Connector M8	MFS204SKHC
⑤	Straight Fittings - Quick Connect Style	GV1-8X6
⑥	Mounting block	KB1800-04
⑦	Cover plate	ADB1810-B
⑨	Switch cam + screws	SN0004
⑩	Universal Jaw Aluminium	UB1810
⑩	Universal Jaw Steel	UB1810ST
	Delivery contents	Order no.
⑧	Centering Disc	BDST41000

► Installation Size: **GP1812**

Pos.	Accessories	Order no.
①	Alternate proximity bracket	KHA1812-B-8
②	Inductive proximity switch - Cable 5 m	NJ8-E2
②	Inductive proximity switch - Connector M8	NJ8-E2S
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
④	Magnetic field sensor Straight Cable 5 m	MFS204KHC
④	Magnetic field sensor Straight Cable 0,3 m - Connector M8	MFS204SKHC
⑤	Straight Fittings - Quick Connect Style	GV1-8X6
⑥	Mounting block	KB1800-05
⑦	Cover plate	ADB1812-B
⑨	Switch cam + screws	SN0004
⑩	Universal Jaw Aluminium	UB1812
⑩	Universal Jaw Steel	UB1812ST
	Delivery contents	Order no.
⑧	Centering Disc	BDST41000

2-JAW PARALLEL GRIPPERS

SERIES GP1800

▶ ACCESSORIES

▶ Installation Size: GP1816

Pos.	Accessories	Order no.
①	Alternate proximity bracket	KHA1816-B-8
②	Inductive proximity switch - Cable 5 m	NJ8-E2
②	Inductive proximity switch - Connector M8	NJ8-E2S
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
④	Magnetic field sensor Straight Cable 5 m	MFS204KHC
④	Magnetic field sensor Straight Cable 0,3 m - Connector M8	MFS204SKHC
⑤	Straight Fittings - Quick Connect Style	GV1-8X6
⑥	Mounting block	KB1800-06
⑦	Cover plate	ADB1816-B
⑨	Switch cam + screws	SN0004
⑩	Universal Jaw Aluminium	UB1816
⑩	Universal Jaw Steel	UB1816ST
Delivery contents		Order no.
⑧	Centering Disc	BDST41600

▶ Installation Size: GP1830

Pos.	Accessories	Order no.
①	Alternate proximity bracket	KHA1830-B-8
②	Inductive proximity switch - Cable 5 m	NJ8-E2
②	Inductive proximity switch - Connector M8	NJ8-E2S
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
④	Magnetic field sensor Straight Cable 5 m	MFS204KHC
④	Magnetic field sensor Straight Cable 0,3 m - Connector M8	MFS204SKHC
⑤	Straight Fittings - Quick Connect Style	GV1-4X8
⑥	Mounting block	KB1800-06
⑦	Cover plate	ADB1830-B
⑨	Switch cam + screws	SN0004
⑩	Universal Jaw Aluminium	UB1830
⑩	Universal Jaw Steel	UB1830ST
Delivery contents		Order no.
⑧	Centering Disc	BDST43000

▶ Installation Size: GP1820

Pos.	Accessories	Order no.
①	Alternate proximity bracket	KHA1820-B-8
②	Inductive proximity switch - Cable 5 m	NJ8-E2
②	Inductive proximity switch - Connector M8	NJ8-E2S
③	Plug-in connector Straight Cable 5m - Socket M8 (female)	KAG500
③	Plug-in connector Angled Cable 5m - Socket M8 (female)	KAW500
④	Magnetic field sensor Angled Cable 5 m	MFS103KHC
④	Magnetic field sensor Angled Cable 0,3 m - Connector M8	MFS103SKHC
④	Magnetic field sensor Straight Cable 5 m	MFS204KHC
④	Magnetic field sensor Straight Cable 0,3 m - Connector M8	MFS204SKHC
⑤	Straight Fittings - Quick Connect Style	GV1-4X8
⑥	Mounting block	KB1800-06
⑦	Cover plate	ADB1820-B
⑨	Switch cam + screws	SN0004
⑩	Universal Jaw Aluminium	UB1820
⑩	Universal Jaw Steel	UB1820ST
Delivery contents		Order no.
⑧	Centering Disc	BDST42000