

CRASH PROTECTION

SERIES CRR

▶ PRODUCT ADVANTAGES



▶ Adjustable triggering sensitivity

By controlling the air pressure, you can optimally match the sensitivity to your application.

▶ Integrated sensors

If there is a collision, the integrated sensor gives a signal to the control system to trigger an emergency stop.

▶ Automated reset

After an emergency stop, you can reset the collision protection from a safe distance. This is an advantage primarily when entering the system is undesirable, dangerous or is possible only with difficulty.

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products welcome the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you endless possibilities.

Find the best product for your specific use:

www.zimmer-group.com

► BENEFITS IN DETAIL



- ① Robot connecting flange**
 - partial mounting circle in accordance with EN ISO 9409-1
- ② Piston position sensing**
 - The sensor generates a signal that can be evaluated to recognize an overload.
 - Magnetic field sensor included in delivery
- ③ Drive**
 - single-acting pneumatic cylinder
 - response sensitivity adjustable via operating pressure
 - with integrated spring
- ④ Overload recognition and compensation**
 - In Z direction
 - Tilting in horizontal direction
 - Rotation around the Z-axis
- ⑤ Connecting flange**
 - partial mounting circle in accordance with EN ISO 9409-1
- ⑥ Reset**
 - Pistons are used to move the connecting flange to its initial position.

► TECHNICAL DATA

Installation size	Connecting flange according EN ISO 9409-1	Z-axis deviation	Repetition accuracy axial +/-
		[mm]	[mm]
CRR40	TK 40	8	0.01
CRR50	TK 50	12	0.01
CRR63	TK 63	15	0.01
CRR80	TK 80	19.5	0.02
CRR100	TK 100	20	0.02
CRR125	TK 125	24	0.02
CRR160	TK 160	30	0.02
CRR200	TK 200	30	0.02

► 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.

CRASH PROTECTION

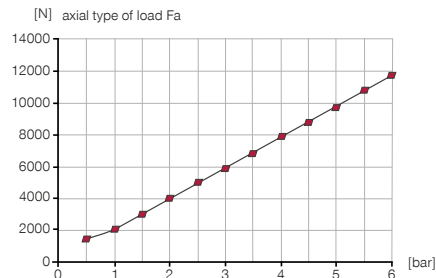
INSTALLATION SIZE CRR125

▶ PRODUCT SPECIFICATIONS



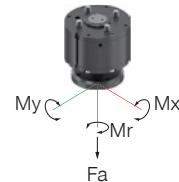
▶ Air pressurization

shows force and moments vs pressure



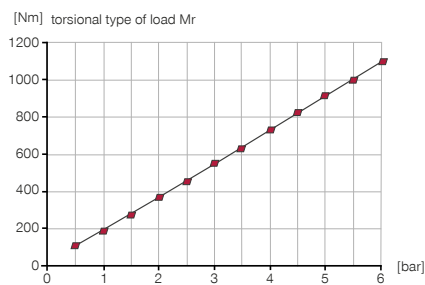
▶ Forces and moments

See diagram for max. forces and torques



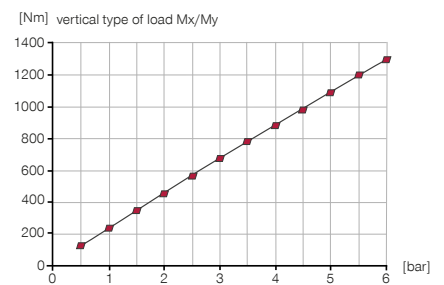
▶ Air pressurization

shows force and moments vs pressure



▶ Air pressurization

shows force and moments vs pressure



▶ INCLUDED IN DELIVERY



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

▶ RECOMMENDED ACCESSORIES



ENERGY SUPPLY



GV1-8X8
Straight Fittings - Quick Connect Style



WV1-8X8
Angled Fittings - Quick Connect Style



CONNECTIONS / OTHER



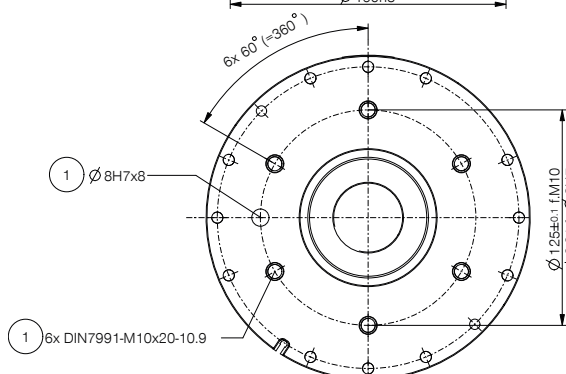
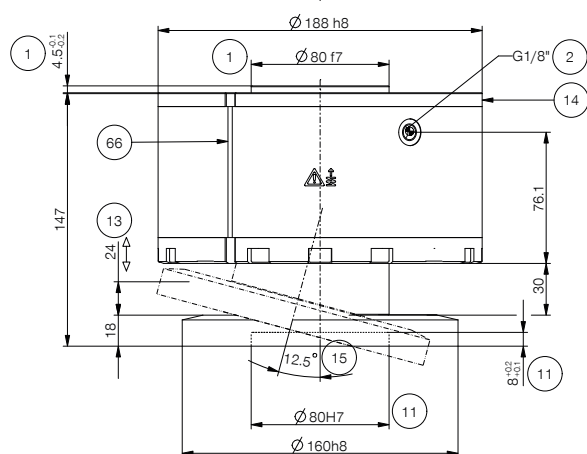
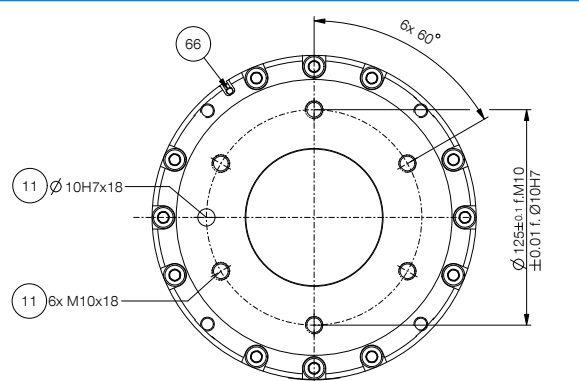
KAG500
Plug-in connector Straight Cable 5m - female connector M8



KAW500
Plug-in connector Angled Cable 5m - female connector M8



Order no.	Technical data
	CRR125N-A
Connecting flange according EN ISO 9409-1	TK 125
Z-axis deviation [mm]	24
Repetition accuracy axial +/- [mm]	0.02
Axial response sensitivity [mm]	0.5
Horizontal deviation +/- [°]	12.5
Repetition accuracy Radial +/- [min]	22
Radial response sensitivity [°]	1.5
Z-axis rotation [°]	22
Repetition accuracy rotatory +/- [min]	22
Response sensitivity rotatory [°]	1
Operating pressure [bar]	0.5 ... 6
Nominal operating pressure [bar]	6
Operating temperature [°C]	5 ... +80
Air volume per cycle [cm³]	453.50
Moment of inertia around the Z-axis [kgcm²]	403.50
Certifications	LABS / REACH / RoHS
Weight [kg]	9.7



- ① Fixing CRR
- ② Energy supply
- ⑪ Fixing (customer-side)
- ⑬ Stroke Z
- ⑭ Adapter plate
- ⑮ Deviation maximal
- ⑯ Magnetic field sensor/Sensor

