

# CRASH PROTECTION

## SERIES CSR

### ▶ 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.

#### ▶ **Manual reset**

To ensure that the machine and the reason for the emergency stop are examined, the manual reset is suitable.

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



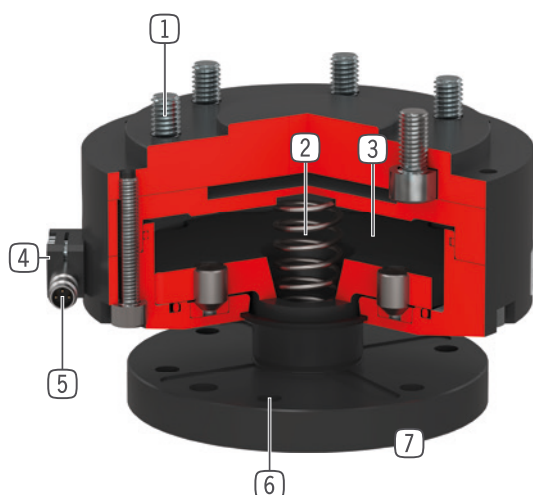
#### ▶ **Our products welcome the challenge!**

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](http://www.zimmer-group.com)

## ► BENEFITS IN DETAIL



- 1 Robot connecting flange**
  - partial mounting circle in accordance with EN ISO 9409-1
- 2 Drive**
  - single-acting pneumatic cylinder
  - response sensitivity adjustable via operating pressure
  - with integrated spring
- 3 Force transfer**
  - direct and low-loss at piston surface
- 4 Pressure differential switch**
  - indirect overload recognition
- 5 Sensors**
  - inductive proximity switch generates a signal which can be used to recognise an overload situation
  - generates an automatic emergency off system situation
  - included in the delivery inductive proximity switch Ø 8 mm with cable connection M8x1
- 6 Connecting flange**
- 7 Overload recognition and compensation**
  - in Z-direction up to 28 mm stroke
  - angular deflection up to 12.5°
  - on rotation around the Z-axis 360°

## ► TECHNICAL DATA

| Installation size | Connecting flange according EN ISO 9409-1 | Z-axis deviation | Horizontal deviation +/- |
|-------------------|-------------------------------------------|------------------|--------------------------|
|                   |                                           | [mm]             | [°]                      |
| CSR50             | TK 50                                     | 12.5             | 12.5                     |
| CSR63             | TK 63                                     | 10.5             | 12.5                     |
| CSR80             | TK 80                                     | 14               | 9                        |
| CSR100            | TK 100                                    | 18               | 9                        |
| CSR125            | TK 125                                    | 23               | 9                        |
| CSR160            | TK 160                                    | 28               | 9                        |

## ► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: [www.zimmer-group.com](http://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.

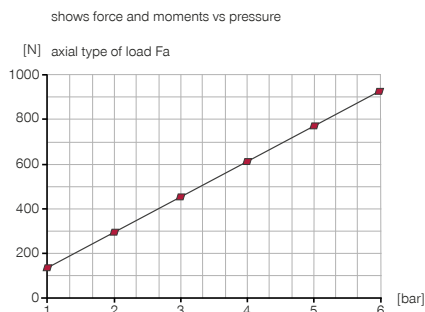
# CRASH PROTECTION

## INSTALLATION SIZE CSR50

### ► PRODUCT SPECIFICATIONS

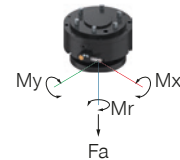


#### ► Air pressurization

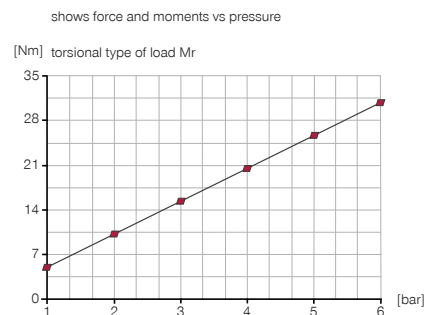


#### ► Forces and moments

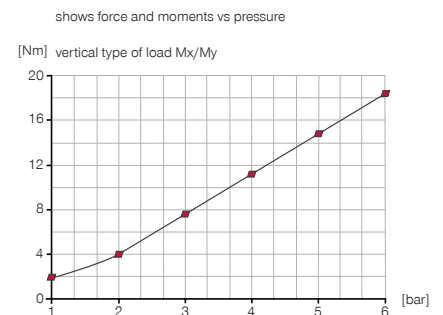
See diagram for max. forces and torques



#### ► Air pressurization



#### ► Air pressurization



### ► INCLUDED IN DELIVERY



1 [piece]  
Inductive proximity switch – M8  
NJ8-E2S-05



4 [piece]  
Cylinder Screw  
C0912060169

### ► RECOMMENDED ACCESSORIES



#### ENERGY SUPPLY



**GVM5**  
Straight Fittings - Quick Connect Style



**WVM5**  
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      |
|-------------------------------------------|---------------------|
| Connecting flange according EN ISO 9409-1 | TK 50               |
| Installation Height [mm]                  | 71                  |
| Z-axis deviation [mm]                     | 12.5                |
| Repetition accuracy axial +/- [mm]        | 0.05                |
| Horizontal deviation +/- [°]              | 12.5                |
| Repetition accuracy radial +/- [mm]       | 0.05                |
| Operating pressure [bar]                  | 1 ... 6             |
| Nominal operating pressure [bar]          | 6                   |
| Operating temperature [°C]                | 5 ... +80           |
| Certifications                            | LABS / REACH / RoHS |
| Weight [kg]                               | 0.66                |

