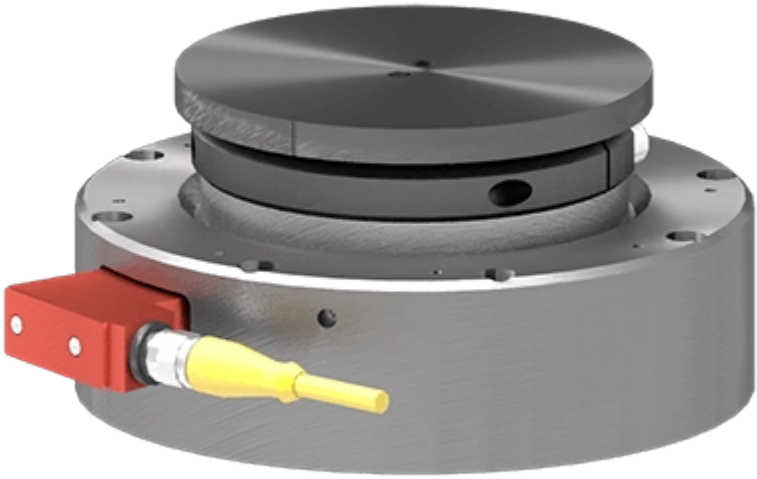
variables/V-color

# Collision Sensor | medium payload | QS-800



With moments trip point from 7.5 to 290 Nm, medium payload collision sensors will be the most appropriate models for your applications such as cutting or gripping.

## Feature

| | QS-800 |
|---|---|
| **Repeatability - X, Y** | 0.025 mm |
| **Repeatability - Z** | 0.013 mm |

| | QS-800 |
|---|---|
| **Rotational Repeatability** | ± 0.029 ° |
| **Axial Compliance Vertical** | 9.300 mm |
| **Compliance Angle** | 5 ° |
| **Rotary Compliance** | 25° |
| **Torque Trip Point** | 53 - 255 Nm |
| **Moment Trip Point** | 36 - 158 Nm |
| **Weight** | 3.700 kg |
| **Diameter** | 167.000 mm |
| **Profile** | 81.500 mm |
| **Center of Mass** | 46.800 mm |
| **Average response time** | 4-8 ms |
| **Dust Protection** | Foam collar supplied |
| **Switch** | High reliability aircraft snap acting type. UL/CSA approved. Average cycle life : 7 million cycles |

# Collision sensor QS-800: A reliable solution for complex industrial environments

## Operating conditions

| | |
|---|---|
| **Operating Pressure** | 1.0 - 6.0 bar |
| **Operating Temperature** | Min. 0°C / Max. 100°C |

**Notice :** The provided technical data are the higher limits recommended in static condition. To obtain the correct dimensioning of the product, it is necessary to hold account of all the applicable dynamic forces, including the inertia of the manipulator, the configuration of the tools and the external forces applied.

- Dynamically variable collision sensor that operate on air pressure. Breakaway threshold adjusts to match the working force ranges of robot/application
- Non compressive, metal to metal seal for reliable and consistent operation
- Opening of QuickSTOP air chamber at impact, pressure exhaust and switch signal stop the robot

## Advantages

- Senses angular and compressive forces. QuickSTOP's unique design offers protection in X, Y and Z axis
- Linear and angle strokes available to remove the forces from end of arm tooling and robot wrist at trip point
- Performance readiness is monitored by QuickSTOP. When pressurized, the switch indicates that the QuickSTOP is reset in proper position

## Benefits

- Minimize down time, quick reset, no need for recalibration, stopping robot at source of impact allows for easy identification of cause
- Minimize robot and expensive end of arm tooling damage during robot programing. A must for any education or robot training cell
- Easy to implement, simple to adjust pressure level according application, quick return on investment

pes product engineering services

expertise in connectivity