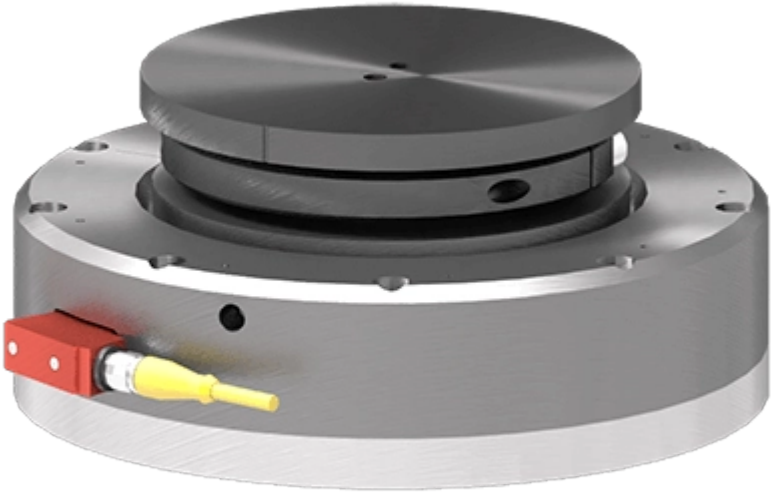
variables/V-color

Collision Sensor | heavy payload | QS-3000



With moments trip point from 150 to 2300 Nm, heavy payload collision sensors will be the most appropriate models for your applications such as handling of larger and heavier items.

Feature

	QS-3000
Repeatability - X, Y	0.038 mm
Repeatability - Z	0.013 mm

	QS-3000
Rotational Repeatability	± 0.029 °
Axial Compliance Vertical	14.300 mm
Compliance Angle	5 °
Rotary Compliance	25°
Torque Trip Point	153 - 478 Nm
Moment Trip Point	105 - 414 Nm
Weight	12.200 kg
Diameter	260.000 mm
Profile	115.000 mm
Center of Mass	66.000 mm
Average response time	4-18 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-3000: Performance and robustness for your technical applications

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

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