

BQS – Drill Quality Assurance

robust ✓
compact ✓
reliable ✓



BQS 224 Sensor Drill Quality Assurance System

Quality Assurance

Optional Component for Every Turning and Milling Machine. Drill Quality Assurance System.

The BQS 224 sensor reliably scans your tool or workpiece for presence and dimensions. It is a useful addition for any turning and milling machine and for all machining centers.

With a sophisticated, multi-level sealing system, the drill breakage monitoring device from TRsystems can cope with all the requirements of classic metal working: emulsions, lubricants, aggressive coolants, fines and chips don't affect it.

With up to 10 million cycles it offers a very long service life.

The stylus holder has a diameter of 1.2 mm and can be adjusted up to a variable length of max. 165 mm.



Your Advantages

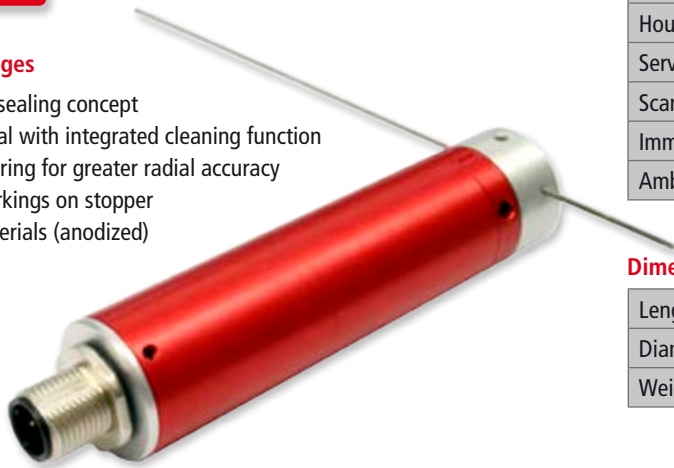
- + save costs through reliable tool monitoring
- + compact design with high level of tightness
- + avoid waste / exclude consequential damages
- + simple installation, easy access
- + durable, anodized aluminium housing

BQS 224 Sensor



Your Advantages

- + Multi-stage sealing concept
- + Labyrinth seal with integrated cleaning function
- + Sintered bearing for greater radial accuracy
- + External markings on stopper
- + Durable materials (anodized)



Technical Data

Protection class	IP 68
Housing	Aluminium (anodized)
Service life	up to 10 million cycles
Scanning angle	15° ... 300° both sides
Immunity to interference	DIN EN 61000-4-4
Ambient temperature	0 ... 80 °C

Dimensions

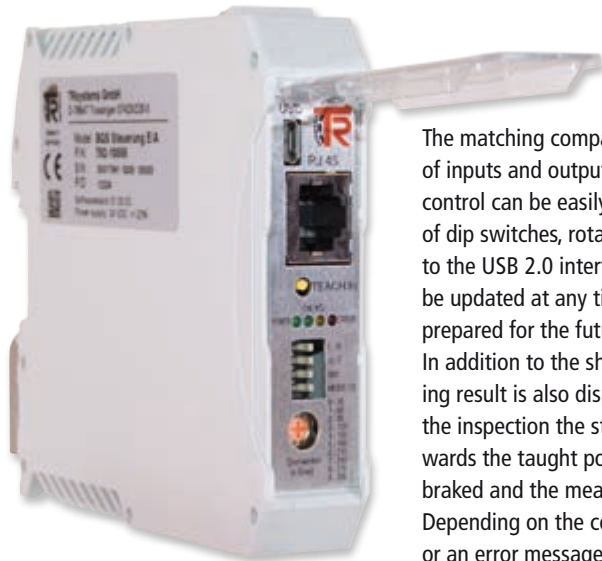
Length	236.5 mm
Diameter	24 mm
Weight (with tactile probe)	128.8 g

BQS Control I/O



Your Advantages

- + ease of use
- + compact design
- + DIN mounting rail holder
- + USB 2.0 updateable
- + LED display Power, OK, K.o., Error
- + 4 digital inputs
- + 4 digital I/O (freely programmable)
- + 12 W switching power
- + outputs short circuit proof



The matching compact control offers a large number of inputs and outputs for individual requirements. This control can be easily configured and operated by means of dip switches, rotary switches and push-buttons. Thanks to the USB 2.0 interface, however, the system can easily be updated at any time and is therefore also optimally prepared for the future.

In addition to the short circuit-proof outputs, the measuring result is also displayed via LEDs on the front. During the inspection the stylus moves from its rest position towards the taught position. Shortly before this, the stylus is braked and the measuring window is very finely scanned. Depending on the configuration and result, an OK signal or an error message is output at the control.

Parts List: System Case (792-10006)



Description:	Item No.:
BQS 224 Sensor	792-10001
BQS Control I/O	792-10005
BQS paddle (test needle)	49 931 005
Collet chuck BQS drill breakage control	49 931 006
BQS flange plate 30 × 5 × 50 mm	49 931 007
Connection cable 2 m	620 001 587
ISR. countersunk screw M4×10	27 003 037
Allen wrench SW 1.5	49 930 050
Bus connector	62 005 278
USB cable 1 m (firmware update)	64 070 427
Flash drive (USB 2.0)	68 000 019



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TRsystems GmbH • Eglshalde 16 • 78647 Trossingen • Tel.: 07425 228 0 • Fax: 07425 228 34 • info@trsystems.de