

TRsystems

BQS – Drill Quality Assurance

Quality Assurance

Optional Component for Every
Turning and Milling Machine.



BQS Control I/O

- + 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

Integrated Dual Mode operation (small drills and fine scanning or quick clock cycles)

BQS 224 Sensor

- + Multi-stage sealing concept
- + Protection class IP 68
- + Very long service life (up to 10 million cycles)
- + bare-tube-housing
- + Durable materials (anodized)
- + Scanning angle up to 300°
- + Service-friendly assembly

Drill breakage monitoring BQS 224

Thanks to a multi-stage sealing system, TRsystems' drill quality control is capable of meeting all the requirements of classic metal processing: emulsions, lubricants, aggressive coolants, respirable dust and chips cannot harm the BQS 224 Sensor.

With up to 10 million cycles, the BQS 224 Sensor offers a very long service life. The scanning wand's collet features a diameter of 1.2 mm and can be adjusted to a variable length of 165 mm max.

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.

Technical Data: BQS 224 Sensor

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
Operating Temperature	0 ... 80 °C
Dimensions	
Length	236,5 mm
Diameter	24 mm
Weight (with tactile probe)	128,8 g

Technical Data: BQS Steuerung I/O

Power supply	24 VDC ±20%
Gehäuse	injection molding
Mode 1 Mode 2	small drills and fine scanning quick clock cycles
Scanning Angle	0° ... 300° both sides
Immunity to interference	DIN EN 61000-6-2 DIN EN 61000-6-4
Operating Temperature	0 ... 50 °C
Dimensions	
Width / Length / Height	22,6 mm / 113,6 mm / 99 mm
Weight (with tactile probe)	133,8 g

Zeichnung:

