

Product Key Strain Rings DSRC



The correct order code must be taken from the corresponding data sheet.

DSRC BT053M/CM

Product Description

DS = Strain sensor

Method

R = Resistive

Series

C = Series C (strain ring)

Type

ST = Standard, 6 pin connector radial, 2 x 1/4 S/G bridge, k = 2,00
BT = Execution with radial cable exit, w/o connector, cable 5 m, 2 x 1/4 S/G bridge, k = 2,00
QM = Quick mount, with hinge and quick mount latch, 6 pin connector radial, with bayonet lock, 2 x 1/4 S/G bridge, k = 2,00
AX = Execution with axial cable exit, w/o connector, cable 5 m, 2 x 1/4 S/G bridge, k = 2,00

Nominal Size (mm)

Shaft Diameter

Metric sizes = Ring diameter in mm

Inch sizes = Inch size converted to mm and rounded to next closest integer mm

Example

053 = 53 mm

Metric / Inch

M = Metric

Options

/TO = Execution for torsion measurement 2 x 1/4 S/G bridge 350 Ω, k = 2,00

/CM = 4 pin cable connector

/CN = 6 pin cable connector

/CL10 = Cable length 10 m

Combinations are possible: example **CL10CM** or **CL10TO**

Note the Following Important Points

When applying the strain ring:

- The strain rings are not suitable for static applications. Reset measuring chain before each cycle.
- The strain rings are equipped with two exactly diametrically opposed strain gages.

Possible bridge circuits:

- Bending compensated with 2 x 1/4 bridge configuration of both strain gages.
- Axial load compensated with 1/2 bridge configuration of both strain gages.
- For strain rings with full bridge circuit, the corresponding cable must be used. The bridge is completed with precision resistors.
- After several hundred repeated installations, the stainless metal foil in the ring may be damaged. Under normal circumstances, this does not compromise the measurement accuracy as long as the gages remain properly aligned.
- The strain rings can be returned to Baumer for reconditioning. All components involved in the measurement are exchanged (Part No. 900554). The strain ring will be shipped back in a 'as new' condition including a certificate of conformity.