Operating Instructions

EEx d - Conductor Bushings BS 16...

- **Technical Specifications:**

Rated voltages	:	250 V 300/500 V 450/750 V 1800/3000 V
Cross sections	:	from 0.25 to 150 mm²
Dimensions	:	M- and Pg-threads from M 10x1 to M 48x1.5 BS 161... plain bushings from Ø 22 to Ø 48 mm BS 162/163...
Positioning	:	any

- **Type of Explosion Protection:**

Ex I M2 / II 2G Ex d I/IIC IBExU 04 ATEX 1082 U

- **Mounting and Connection**

The conductor bushings of type BS 16.... are designed for the leading out of electrical cables and leads out of flameproof encaspsulated enclosures. They may be mounted in any position. The mounting direction in the flameproof enclosure, however, has to be regarded. The conductor bushings have always to be installed from the inside to the outside. The versions with single cables on both sides always have to end up in enclosure parts which comply with a type of protection according to EN 60079-0.

The conductor bushings of the BS 161... series are directly screwed into corresponding threaded holes of the enclosure walls of the flameproof enclosure. The thread has to comply with the requirements according to ISO 965 I, III medium or better and has to form a threaded joint of at least 5 shared thread turns with the conductor bushing. The screwed-in bushing has to be secured against self-loosening. For this purpose there exist three permitted options. The thread can be secured by locking with a safety nut or by cementing with a screw securing adhesive. Furthermore, screw lock plates can be supplied as accessories.

The BS 162... and BS 163... series are plug-in bushings with cylindrical joints, of which the BS 162... types can be directly inserted in EEx d enclosure walls. The types BS 163..., on the other hand, are equipped with an additional threaded liner which have to be screwed in and to be secured, as described for BS 161... . The plug-in bushings BS 162... are fixed with three hexagon socket head cap screws M 4 x 6 or M 4 x 8, when inserted directly as well as when screwed into the threaded liner. To prevent self-loosening of these screws appropriate spring washers have to be added.

For direct insertion of the plug-in bushings in an enclosure wall it has to be guaranteed that the minimum requirements described in EN 60079-1 concerning length of joints and width of gaps as well as surface characteristics have to be regarded.

Mechanically damaged conductor bushings have to be replaced by new ones.

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