

Figure 3-11 Attachment of part-turn actuator, mounting console (scope of delivery actuator manufacturer), dimensions

### 3.4 Electrical Connection



#### NOTE

Any necessary options modules must be installed before electrical connection (see chapter 2.7, page 27).

N.B.: The transmission ratio selector can only be set when the positioner is open. Therefore check this setting before closing the controller.



#### WARNING

The specifications of the examination certificate valid in your country must be observed.

#### Electrical connection in hazardous areas

The national directives and laws which apply in your country for hazardous areas, must be followed for electrical installations. In Germany these are, for example:

- Working reliability regulations
- Regulations for installing electrical equipment in hazardous areas, DIN EN 60079-14 (in the past VDE 0165, T1).
- The EC type examination certificates



**WARNING**

If the intrinsically safe version is operated with a higher operating voltage by mistake, the positioner must no longer be used for intrinsically safe application.

The explosion-proof positioner may only be supplied with electrical power in areas in which the atmosphere may be potentially explosive when the housing is closed. Where power supply is required, we recommend checking the power supply to ensure that it corresponds with that on the name plate and with the test certification valid for your country.

The feed-through openings in the explosion-proof version for the electronic connections must be sealed with EEX-d certified cable glands or EEx-d certified plugs or an ignition lock must be mounted at a maximum distance of 46 cm (18 inches) when using the “conduit”-system.

The plastic housing is metal lined to increase the electromagnetic compatibility (EMC) against high frequency radiation. This screen is connected electrically to the threaded bushes shown in figure 3-12, page 58.

Please bear in mind that this protection can only be effective if you connect at least one of these bushes with grounded fittings by electrically conductive (blank) mounting parts.

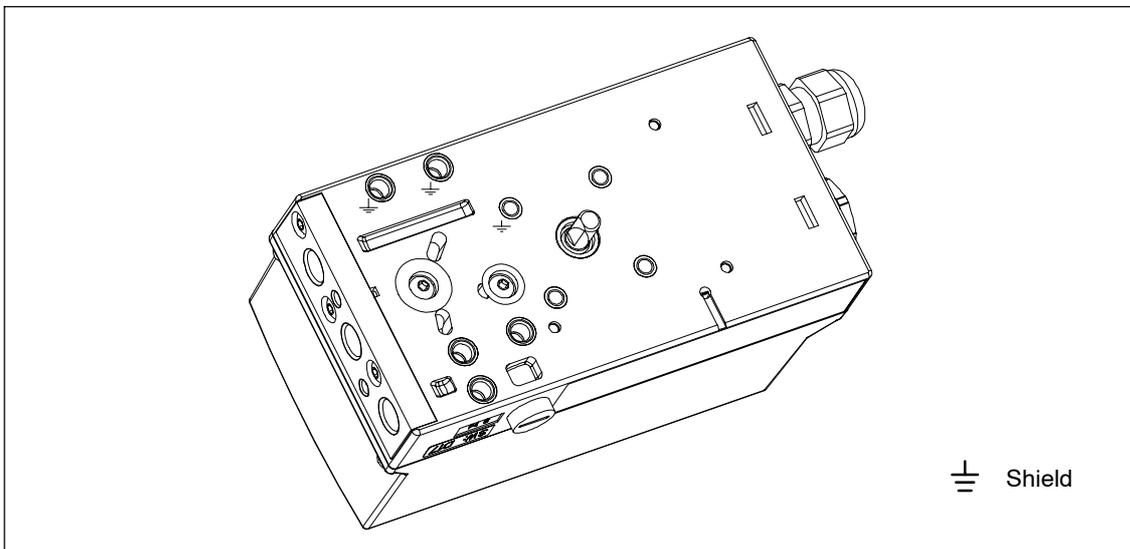


Figure 3-12 Base plate

**Standard controller**

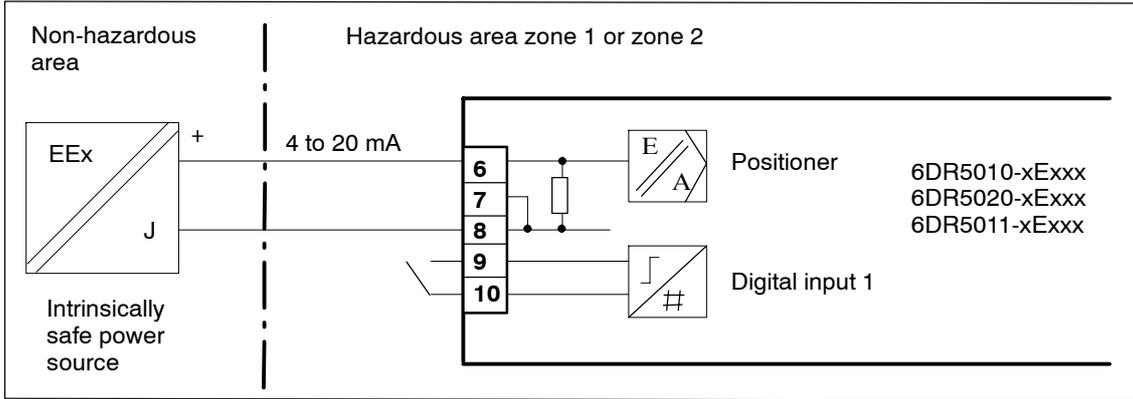


Figure 3-20 Two-wire connection, EEx i

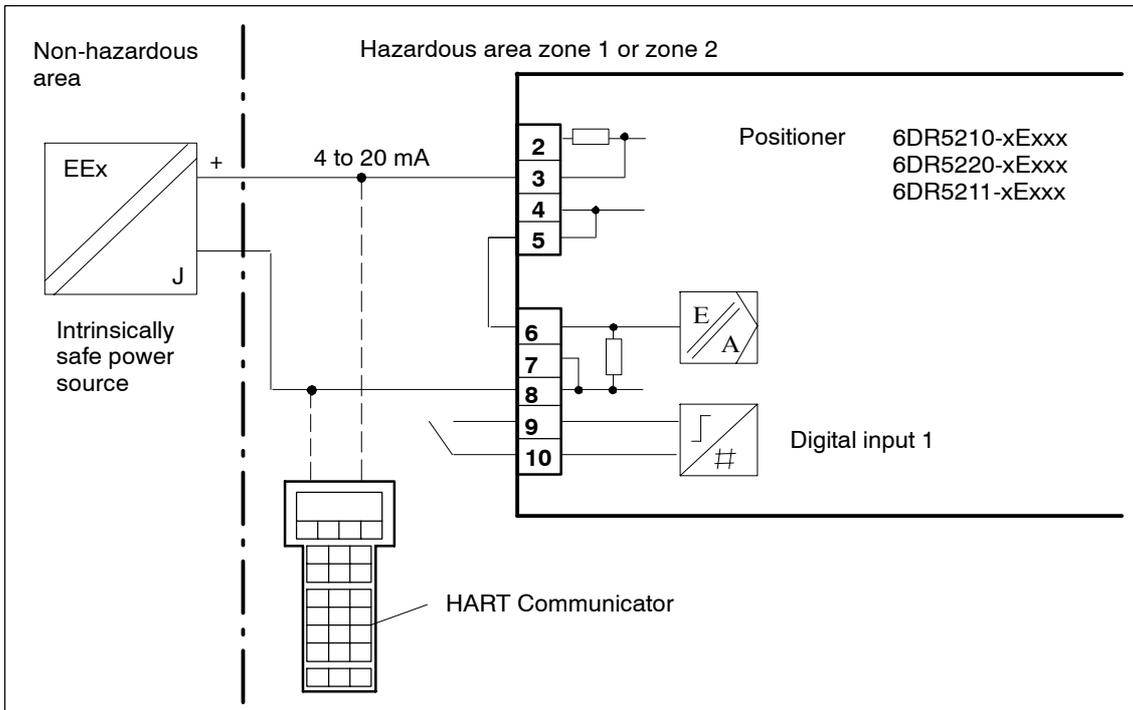


Figure 3-21 Two-wire connection, EEx i