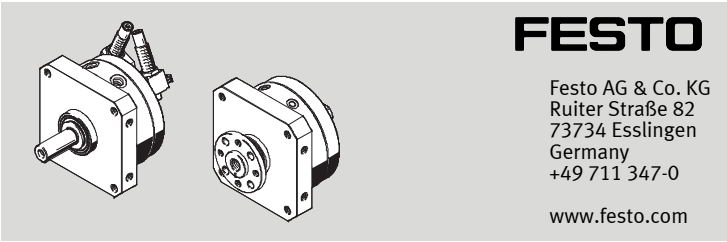


DSM-6...63-...-EX3-CS

Quarter turn actuator



Operating conditions | EX


8102481
2018-11e
[8102483]

CE Ex



Translation of the original instructions

1 Identification EX


Identification mark		
	II 2G	Ex h IIC T4 Gb X

Tab. 1

2 Further applicable documents

NOTICE!

Technical data for the product can have different values in other documents. For operation in an explosive atmosphere, the technical data in this document always have priority.

 All available documents for the product → www.festo.com/pk.

3 Function

When the compressed air supply ports are pressurised reciprocally, the internal slide in the housing of the device moves back and forth. The swivelling motion is transmitted to the output shaft.

4 Safety

4.1 Safety instructions

- The device can be used under the stated operating conditions in zones 1 and 2 of explosive gas atmospheres.
- All work must be carried out outside of potentially explosive areas.
- Extraction of the operating medium outside the potentially explosive area.
- The device is not intended for use with other fluids.
- Positioning tasks or transmitting torques and lateral forces is not intended.

4.2 Intended use

The semi-rotary drive DSM is intended for swivelling payloads that do not have to execute a complete rotation.

4.3 Identification X: special conditions

- Danger of electrostatic discharge.
- Ambient temperature:
 $0^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

5 Commissioning

WARNING!

- The discharge of electrostatically charged parts can lead to ignitable sparks.
- Prevent electrostatic charging by taking appropriate installation and cleaning measures.
 - Include the device in the system's potential equalisation.
 - Include the shaft separately in the equipotential bonding of the system. The shaft is electrically insulated from the actuator.

WARNING!

- When using external stops: impact processes may cause ignitable sparks if corroded metal is involved.
- Do not use stops of metal that could corrode.

NOTICE!

Strong charge-generating processes can charge non-conductive layers and coatings on metal surfaces.

NOTICE!

Escaping exhaust air can swirl up dust and create an explosive dust atmosphere.

NOTICE!

Related type of ignition protection: c (constructional safety)

NOTICE!

Particulate matter in the compressed air can cause electrostatic charges.

- Observe the product labelling.
- Seal unused openings with blanking plugs or slot covers.
- Connect the device with hoses as short as possible to prevent additional heating.

When using PPV end-position cushioning or shock absorbers:

- Adjust the cushioning so that the piston rod safely reaches the end positions and that it does not strike hard against them or rebound.
- Only load the shock absorber in the axial direction. Avoid the generation of transverse loads.

6 Maintenance and care

- Check the operational reliability of the device regularly. Interval: 2 million movement cycles or after 6 months at the latest.

The replacement of wearing and spare parts is possible in individual cases. Repairs of this type must only be carried out by trained and authorised specialists.

- Please contact your Festo technical consultant.

7 Technical data

Operating conditions		
Ambient temperature	[°C]	0 ... +60
Mounting position		Any
All aluminium alloys used contain less than 7.5 % magnesium (Mg).		

Tab. 2