

Damper actuator 50 Nm spring return ~3 sec

Electrical, explosionproof spring return actuator Type EXT-50...-F3/BLM **List 2.3** for hazardous areas zone 1, 2, 21, 22 - torque 50 Nm, spring return ~3 sec - tested acc. to ATEX **EX-TURN**

APPLICATION

EXT-50...-F3/BLM Spring return damper actuator with direct coupling shaft connection. Explosionproofed in acc. with "flameproof enclosure" and dust ignition proof, PTB-tested. Installation in hazardous areas zone 1, 2, 21, 22. The actuator will stop on overload. On loss of power, the actuator returns the damper to its safety position within 3 seconds. Squared shaft connection 14 x 14 mm. Application: For industrial plant. For offshore applications we recommend the special types EXT-50...-F3/CT and EXT-50...-F3/VA.

TECHNICAL DATA

EXT-50230-F3/BLM EXT-5024-F3/BLM Type Supply voltage (±10%) 230 VAC 50...60 Hz 24 VAC 50...60 Hz/ 24 VDC PowerRUNNING MAX ~90 VA ~90 VA ~15 VA ~15 VA PowerOPEN MAX PowerHEATER ~27 VA ~27 VA Load type inductive capacitive Motor torque 50 Nm 50 Nm Running time motor < 30 sec / 90 < 30 sec / 90° ~50 Nm Spring torque ~50 Nm Running time spring ~3 sec / 90° ~3 sec / 90° Control mode on-off on-off 90° Angle of rotation 90° Pretension ~3° ~3° 10.000, however depending on damper-design and operating Safety operations

conditions

Shaft connection squared 14 x14 mm

Endswitches no endswitches, actuator is overload protected

Ambient temperature 0... 40 °C, non condensing; -20 °C... 40 °C with optional heater

Housing material Aluminium baked varnish Aluminium ~20 kg Weight Stainless Steel ~30 kg Indication CE Nr. 0158

PTB-tested acc. to directive 94/9/EG (ATEX)

Certificate

PTB 99 ATEX 1103

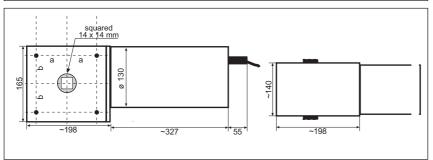
| II2G EEx d IIC T6, CENELEC EN 50014/ EN 50018
| II2D IP65 T95°C, CENELEC EN50281-1-1 Explosionproof

max. 20 open - close cycles per hour Control operation External PE-connector

Connectable lines: 4 mm² multiple-wire, 6 mm² single-wire Protection IP 65

Included Actuator with 1 m cable Installation area hazardous areas zone 1, 2, 21, 22

DIMENSIONS



Off-shore and industrial plant Ex II2G EEx d IIC T6 Zone 1, 2 €x II2D IP65 T95°C Zone 21, 22

ACCESSORIES

/K Heater for outdoor applications, operating temperatures < 0 °C and/or at high humidity for

reducing water condensation.

/CT All housing parts aluminium with Amercoat varnish, block-parts in Stainless Steel

AISI 316 for Offshore application.

All housing parts in stainless steel AISI 316

for Offshore application.

/2FF 2 integral, potential free aux. switches, switching

at ~5° and ~85°.

EXC-K Different EEx e terminal boxes available DS1/VA Trigger, temp. sensor for safety function, with

glass bulb, housing in stainless steel. Reducing sleeve for squared shaft 12 mm.

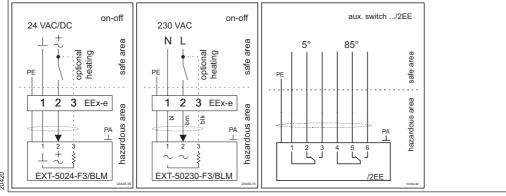
ATTENTION

 $/V/\Delta$

R14-12

- Do not run the actuator without load. The minimum load on spring return should be > 10 Nm!
- The actuators must not be opened by the customer. Make sure the spring return force will not damage
- the damper.
- Not more than 1 actuator per shaft is allowed. The cable of the actuator must be installed in a fixed position and protected against mechanical damage.
- For installation, use and maintenance the official standards and rules must be applied. For outdoor installations the internal heater must be
- used. A protective housing against rain, snow and sun should be applied to the actuator.
- After installation all componetes must fullfil the protection class IP65 acc. EN60529

ELECTRICAL CONNECTION



subject to change

