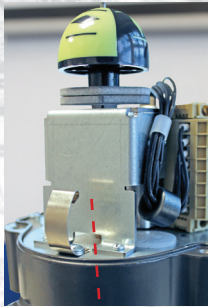


# PSF-Q-EX

**PS**<sup>®</sup> AUTOMATION  
we care for actuation

Electrical 90° explosion-proof quarter-turn actuator with mechanical fail safe function



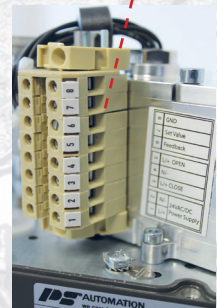
Contactless, non-wearing travel detection with **Hall sensor** for exact positioning



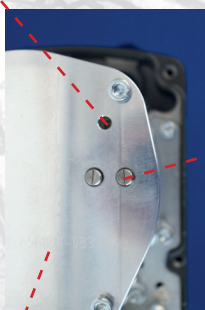
Robust industrial design with **polycarbonate cover**, enclosure IP67

**Brushless DC motor (BLDC)**  
Controller with integrated positioner function

**Explosion-proof terminals**



**Inspection glass** to show **LED signals** in hazardous environment



**Manual operation of the actuator** is also possible in hazardous environment

**Manual operation with push buttons.**  
Parameter setting via **DIP switches**



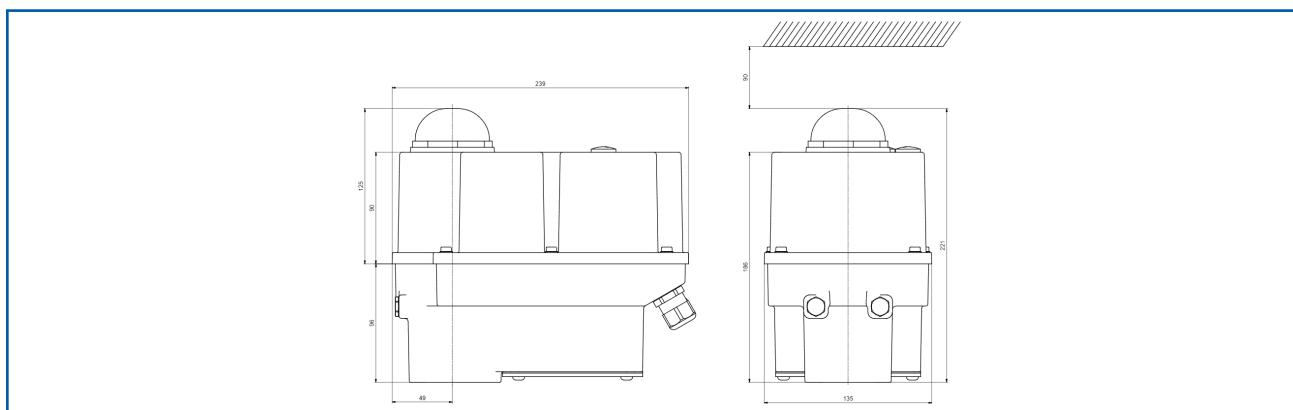
**Pressure-tight casing** for applications in Zone 1, 2, 21, 22

# PSF-Q-EX

## Technical Data

| PSF-Q50-EX                      |    | PSF-Q80-EX  |   |
|---------------------------------|----|---|---|
| Device category                 |    | II 2G   II 2DG  |   |
| EU Type Examination Certificate |    | TPS 22 ATEX 110398 0002 X   |   |
| ATEX directive gases            |    | Ex h db eb IIC T6/T4 Gb   |   |
| ATEX directive dusts            |    | Ex h tb IIIC T80°C/T100°C Db  |   |
| Torque                          | Nm | 50  | 80  |
| Operating Time / 90°            |    | 25 s  | 30 s  |
| Flange (ISO 5211)               |    | F05 / F07   |   |
| Power supply                    | V  | 24 VAC/DC, 100 - 240 VAC  |   |
| Weight approx.                  | kg | 7.2   |   |
| Frequency                       | Hz | 50 - 60   |   |
| Nominal / Maximum Current       | A  | 0.16 / 1.15   | 0.2 / 1.55                                  |
| Power Consumption               | W  | 22 (100-240 VAC) / 22 (24 VAC) / 20 (24 DC)   | 28 (100-240 VAC) / 28 (24 VAC) / 27 (24 DC) |
| Duty cycle as per IEC 60034-1,8 |    | S2 30 min / S4 50% ED - 1200c/h   |   |
| Permitted ambient temperature   |    | -10 to +60°C  |   |
| Motor Protection                |    | Electronic motor current monitoring with safety cut-off   |   |
| Overvoltage Category            |    | II  |   |
| Binary control                  |    | 24 - 230 VAC & 24 VDC for ON/OFF service  |   |
| Set value and feedback          |    | 0-20 mA, 4-20 mA, 0-10 V, 2-10 V selectable   |   |
| Valve Positioner Function       |    | Integrated, deadband 0.6% of full signal range, shut-off minimum  |   |
| Automatic commissioning         |    | Recognizing the end position(s) and autoscaling set and feedback values   |   |
| Internal Fault Monitoring       |    | Torque, set value, temperature, power supply  |   |
| Cable Glands                    |    | 2 pcs. ISO M20 x 1.5 and 1 pcs. ISO M16 x 1.5   |   |
| Fail-Safe Operating Direction   |    | Clockwise (CW) - Spring drives output valve shaft clockwise or<br>Counter Clockwise (CCW) - Spring drives output valve shaft counterclockwise |   |

## Dimensions



### PS Automation GmbH

Philipp-Kraemer-Ring 13 • D-67098 Bad Dürkheim  
+49 (0) 6322-94980-0 • [info@ps-automation.com](mailto:info@ps-automation.com)  
[www.ps-automation.com](http://www.ps-automation.com)

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