# PSW 31 - Shaft 8 mm solid



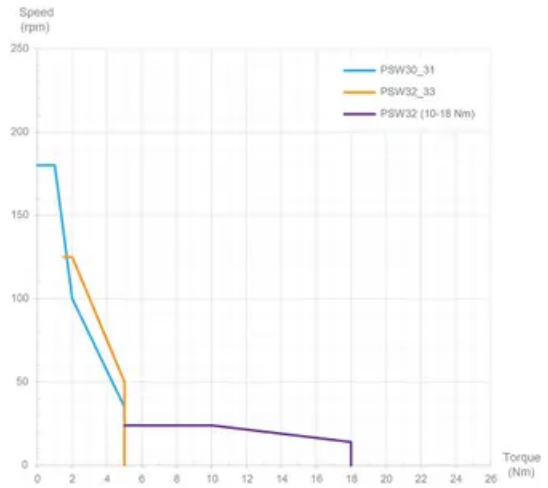

• Positioning system with IP 68
• Absolute measuring system, without battery
• Galvanically separated supply voltages between control and motor and bus
• Absolute encoder eliminates the need for reference runs during system setup and installation of replacements
• Easy address assignment directly on the device using integrated address switches (not for IO-Link)
• Manual disconnecting lever permits manual disconnection of the gearbox
• Regulation of the current torque prevents overloading and unnecessary run aborts
• Strong breakaway torque enables safe start-up even after an extended standstill
• Intelligent running behaviour. Recognises the difference between obstacles and dirt
• Spindle offset run: Excludes inconsistencies due to lash in the spindle
• Condition monitoring of supply voltage, drag error (permits optimum adjustment of current position), power consumption and torque
• Partial safety function for STO (Safe Torque Off)

Dimensions in mm.

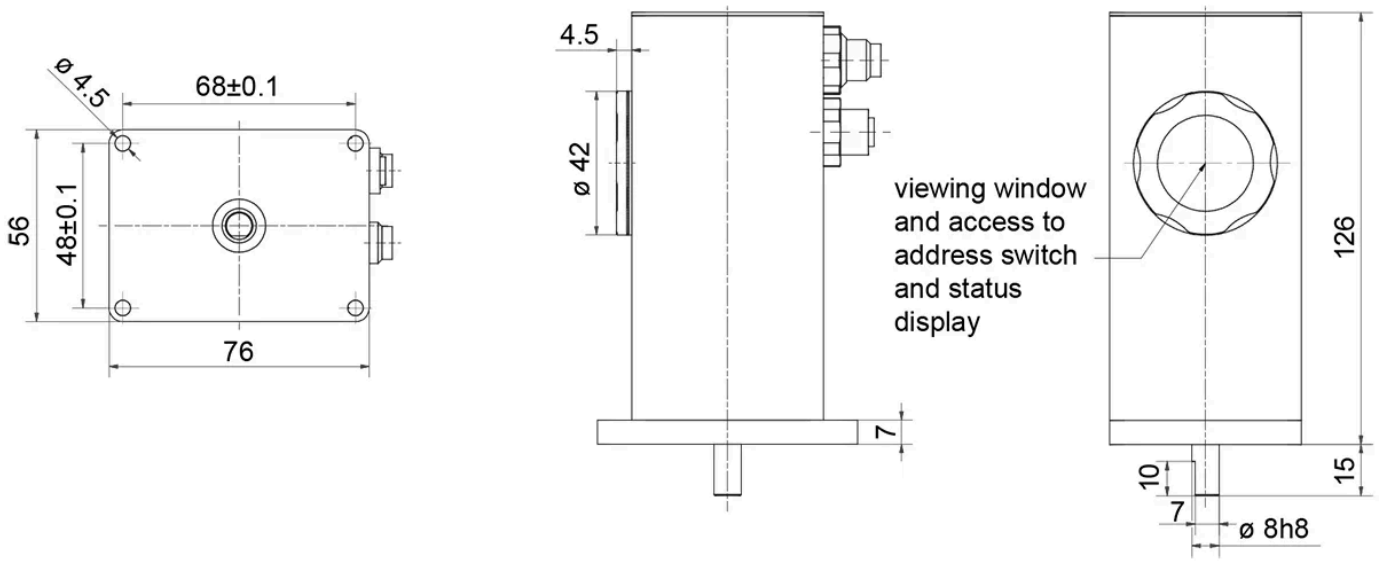
**Type:** Vertical
**Nominal Voltage (V DC):** 24 (± 10 %)
**Nominal Current (A):** 2.2
**Output Shaft (mm):** 8
**Output Shaft Type:** Solid
**BUS Communication:** Can Open (CA); Profi Bus (DP); Device Net (DN); Modbus (MB); IO-Link (IO); ProfiNet (PN); Sercos (SE); EtherCat (EC); Ethernet IP (EI); PowerLink (PL)
**Electrical connection:** "Standard; with jog keys; 1 connector Y-encoded or 1 connector Y-encoded with jog keys"
**Protection Class:** IP68
**Motor:** EC-motor
**Supply Voltage:** 24 V DC ± 10 % galvanically separated between control and motor and bus
**Measurement System:** Absolute, optical-magnetic
**Accuracy:** ± 0.9°
**Intermittence:** 20% (basis time 600 s)
**Manual Adjustment:** No
**Brake:** No
**Material:** All components in stainless steel. (Except for feather key, if available.)


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Performance Curve - Direct Drives PSW




## General Data




| Designation | Nominal Torque (Nm) | Nominal Speed (rpm) | Nominal Current (A) | Self-holding Torque (Nm) | Positioning Range (rot.) |
|---|---|---|---|---|---|
| **PSW 311-8V** | 1 | 180 | 2.2 | 0.5 | 250 |
| **PSW 312-8V** | 2 | 100 | 2.2 | 1 | 250 |
| **PSW 315-8V** | 5 | 35 | 2.2 | 2.5 | 250 |


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