

PSE 42_ with stepping motor

Positioning of auxiliary and positioning axes



Special features

- complete solution including motor, gear, controller, absolute measuring system and bus interface
- easy mounting due to hollow shaft, manual positioning also possible
- quickly recoups automation costs by considerably reducing setup time
- eliminates the need for reference runs
- address may be set using the BUS or a manual decade switch
- mechanical display of actual position
- optional hand brake for raising holding torque

Technical data

| | |
|---|---|
| nominal power output | 24 W |
| start-up duration | 30 % (basis time 300 s) |
| supply voltage | 24 VDC ± 10 % galvanic separation between control unit and motor |
| nominal current | 3 A |
| power consumption (control unit) | 0.1 A |
| positioning accuracy position data are acquired directly at the output shaft | 0.9 ° |
| positioning range | 80 rotations |
| shock resistance as stipulated in DIN IEC 68-2-27 | 50 g 11 ms |
| resistance to vibration as stipulated in DIN IEC 68-2-6 | 10...55 Hz 1.5 mm / 55...1000 Hz 10 g / 10...2000 Hz 5 g |
| testing | CE |
| output shaft | 14 H 7 hollow shaft with adjustable collar |
| maximum axial thrust | 20 N |
| maximum radial force | 40 N |
| ambient temperature | 0...45 °C |
| storage temperature | -10...70 °C |
| protection class | IP 54 |
| weight | 1900 g |

| nominal power | nominal torque | self-holding torque | nominal rated speed | A model |
|---------------|----------------|---------------------|----------------------|---------|
| 24 W | 10 Nm | 10 Nm | 22 min ⁻¹ | 4210 |
| 24 W | 25 Nm | 25 Nm | 9 min ⁻¹ | 4225 |

| data interface | B |
|------------------|----|
| CANopen / DS 301 | C |
| Profibus DP | DP |

| instrument connections | C |
|---|---|
| Standard CANopen (round socket for power supply and bus) | S |
| Standard Profibus DP (round socket for power supply and D-Sub for bus) | D |
| Round sockets for Profibus DP (power supply and bus) | R |

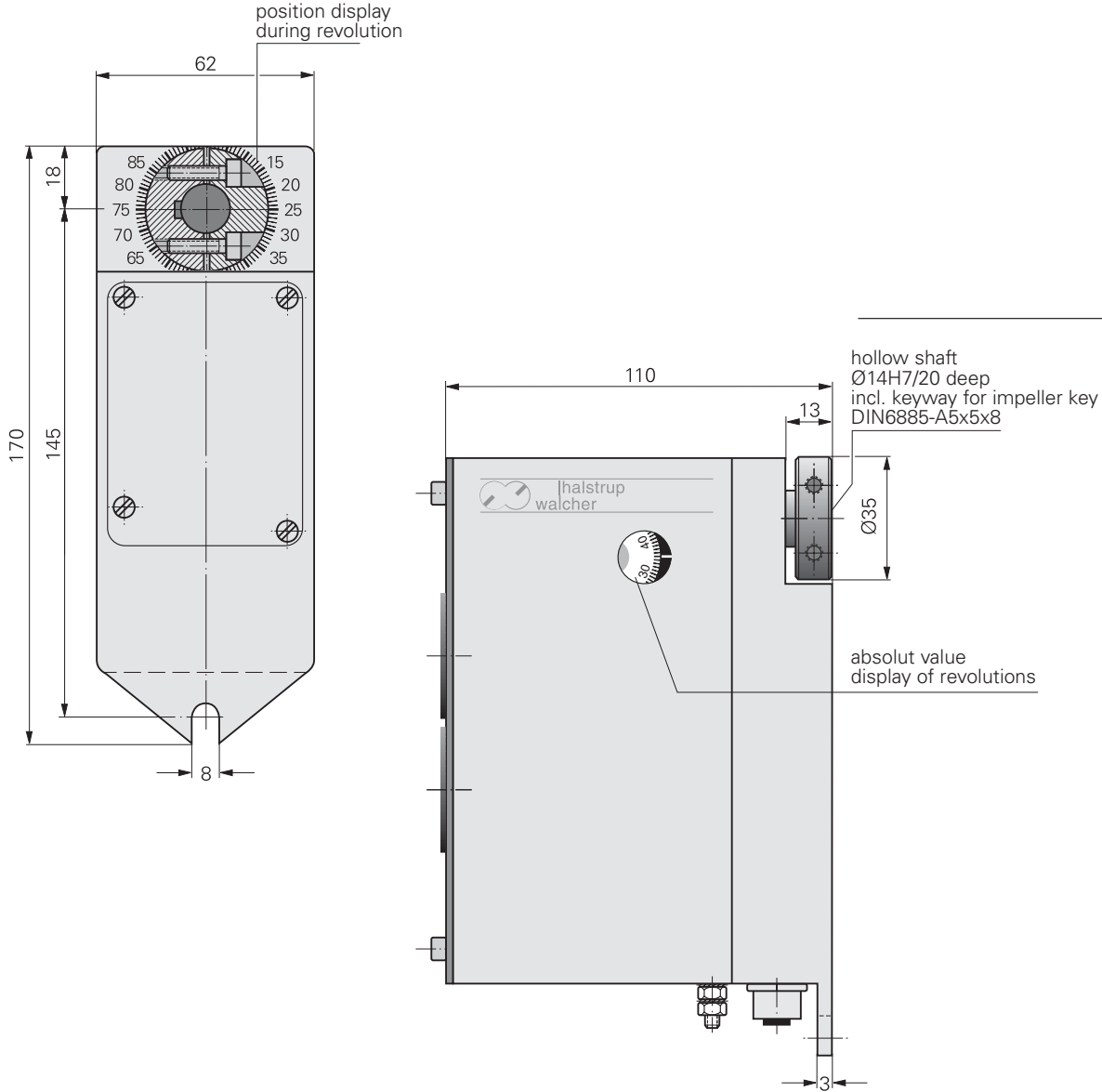
| optional hand brake | D |
|---|---|
| no brake | O |
| with brake (holding torque is equivalent to nominal torque) | M |

Order key

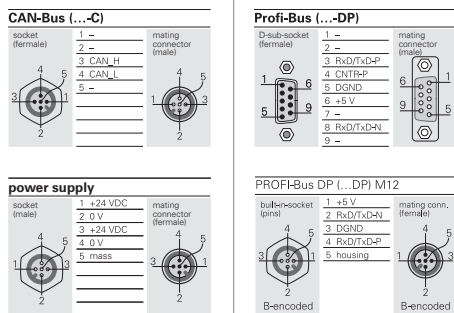
| | A | B | C | D |
|-----------------------------------|---|---|---|------------|
| PSE | - | - | - | - |
| accessories (connectors) | | | | |
| <input type="checkbox"/> CANopen | | | | 9601.-0024 |
| <input type="checkbox"/> Profibus | | | | 9601.-0033 |

PSE 42_ with stepping motor

Dimension drawing



Connection diagram



Functional block diagram

