PSS 30x-8

IP 65

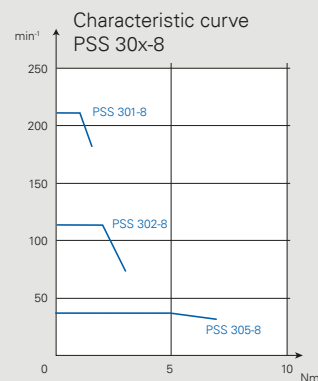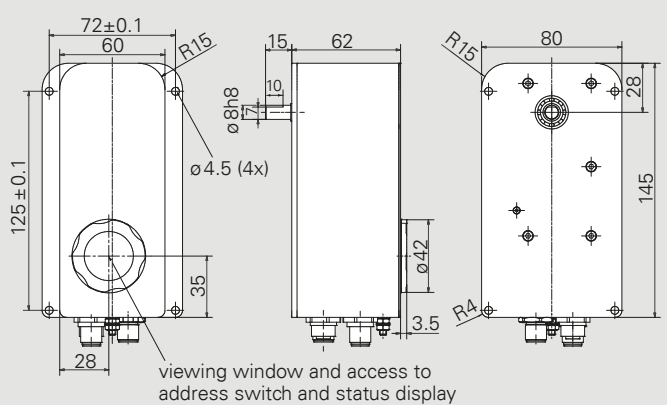| Product	Nominal torque (x)	Self-holding torque (energized)	Nominal rated speed
PSS 301-8	1 Nm	0.5 Nm	210 min⁻¹
PSS 302-8	2 Nm	1 Nm	115 min⁻¹
PSS 305-8	5 Nm	2.5 Nm	40 min⁻¹

Duty cycle	20% (basis time 600s) at nominal torque
Mode of operation	S3
Supply voltage	24 VDC ±10% galvanically separated between control and motor and bus
Nominal current	2.3 A
Power consumption (control unit)	0.1 A
Positioning accuracy absolute measurement of position taken directly at the output shaft	0.9°
Positioning range	250 rotations not subject to mechanical limits
Shock resistance in accordance with IEC/DIN EN 60068-2-27	50 g 11 ms
Vibration resistance in accordance with IEC/DIN EN 60068-2-6	10..55 Hz 1.5 mm / 55..1 000 Hz 10 g / 10..2 000 Hz 5 g
Output shaft	8 mm solid shaft or 8 mm hollow shaft with clamp ring
Max. axial force	20 N
Max. radial force	40 N
Ambient temperature	0..45 °C
Storage temperature	-10..70 °C
Protection class	IP65 when installed and wired
Material	stainless steel housing
Weight	1550 g
Certificates	CE/UKCA, optional: NRTL, optional: STO with/without test pulses [1]

[1] STO: only for EtherCAT, EtherNet/IP, POWERLINK, PROFINET, without galvanic separation of the supply voltage

PSS 30x-8 (with hollow shaft)

screw DIN912 M4x16

hollow shaft ø8H9/20 depth

torque support

viewing window and access to address switch and status display
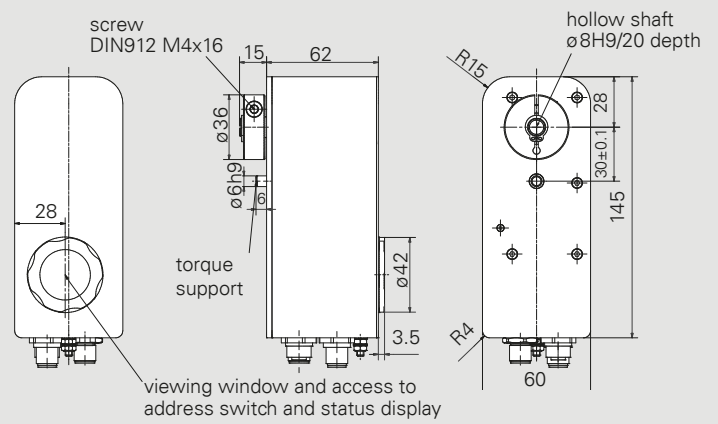
PSS 30x-8 V (with solid shaft)

viewing window and access to address switch and status display

Characteristic curve PSS 30x-8

Dimensions in mm. For details of the connections please see also the instruction manual.

Available: PROFINET | EtherNet/IP | EtherCAT | POWERLINK | IO-Link | PROFIBUS | CANopen | Sercos | DeviceNet | Modbus

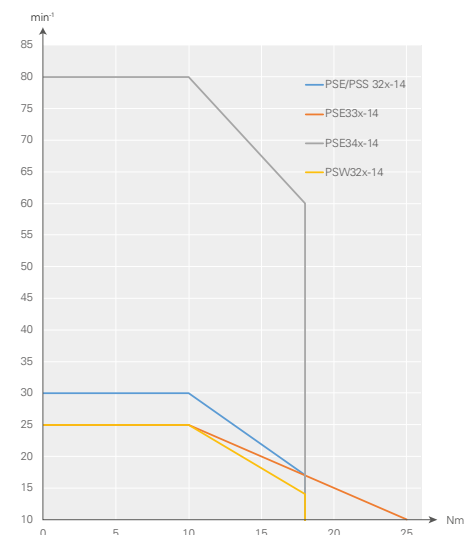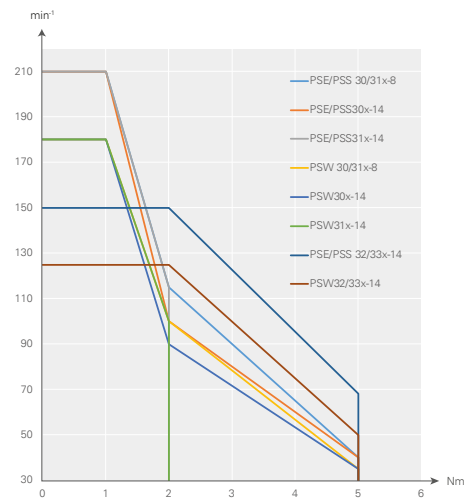# How to choose your suitable positioning system?

To order our standard products, you can use the graphics on the right for an initial performance assessment of the products and the corresponding order code of the 3 series. The ordering process is described below using an example.

A Choose the appropriate **design** based on your operating conditions

B **Type:**
- Vertical or horizontal form (value even or odd)
- max. rated torque (x) - for orientation see characteristic diagrams
- Output shaft (8 or 14) and solid or hollow shaft

C select required protocol / interface (**bus communication**)

D integrate the **connections** that are essential for you

E if necessary, select a **brake** (without brake select 0)

F select required **certificates**

G select **IP protection class**

For example, a stainless steel housing (PSS), the 30x design, a maximum rated torque of 2 Nm and an 8 hollow shaft would be required (302-8). Besides IO-Link, the standard connections are required, no brake, the CE/UKCA certificate and IP65.

→ Order code **PSS 302-8-IO-0-0-0-65**

Torques and speeds

Legend:
- PSE/PSS 30/31x-8
- PSE/PSS30x-14
- PSE/PSS31x-14
- PSW 30/31x-8
- PSW30x-14
- PSW31x-14
- PSE/PSS 32/33x-14
- PSW32/33x-14

Legend:
- PSE/PSS 32x-14
- PSE33x-14
- PSE34x-14
- PSW32x-14

Order code PSE / PSS / PSW 3 series

A	B	C	D	E	F	G

		A	B	C	D	E	F	G
		Design	Type	Bus communication	Connections	Brake	Certification	IP protection class
Positioning System **Efficient**	PS**E**		30x-8 30x-8 V 30x-14 30x-14 V 31x-8 31x-8 V 31x-14 31x-14 V 32x-14 32x-14 V 33x-14 33x-14 V 34x-14 [5]	CA: CANopen DP: PROFIBUS DP DN: DeviceNet [1] MB: Modbus RTU [1] SE: Sercos EC: EtherCAT PN: PROFINET EI: EtherNet/IP PL: POWERLINK IO: IO-Link	0: Standard [2] T: Standard with jog keys [1] X: Plug-in, L-coded [1] Y: Plug-in, Y-coded [1] Z: Plug-in, Y-coded, with jog keys [1]	0: without M: with [3]	0: CE / UKCA N: NRTL + CE/UKCA S: STO + CE/UKCA without test pulses [1] T: STO + CE/UKCA with test pulses [1] Y: STO + NRTL + CE /UKCA without test pulses [1] Z: STO + NRTL + CE /UKCA with test pulses [1]	54: IP 54 [1] 65: IP 65 [1] 68: IP 68 [4]
Positioning System **Stainless**	PS**S**							
Positioning System **Washable**	PS**W**							

Form/Type		Torque	Output shaft
30	horizontal	**x** = 1 Nm	8 = 8 mm hollow shaft
31	vertical	**x** = 2 Nm	14 = 14 mm hollow shaft
32	horizontal	**x** = 5 Nm	8 V = 8 mm solid shaft [1]
33	vertical	**x** = 10 Nm	14V = 14 mm solid shaft [1]
34	horizontal	**x** = 18 Nm	
		x = 25 Nm [5]	

[1] Not available as standard for all versions / bus communication.
Please contact our sales department.
[2] The standard is 3 plugs / sockets (except for IO-Link or Y-coded connector)
[3] only for variants with 14 mm output shafts
[4] only for PSW
[5] only for PSE

Please refer to the data sheets for the respective standard combinations.

Accessories for our positioning systems

The connectors shown here can be used for all 3 device types (PSE / PSS / PSW). For PSE (IP 54 / IP 65) and PSS (IP 65), this ensures the IP protection classes. If required, we are happy to help you find a suitable connector for a PSW (IP 68) - please contact us.

Buscommunication	Power supply (+ databus connector) (for option 0) [1]	Power supply + databus + jog key connector	Cable
CANopen	Connector set: Order no. 9601.0060	Connector set: Order no. 9601.0062	
PROFIBUS DP			
Modbus RTU			
DeviceNet	Connector set: Order no. 9601.0088	Connector set: Order no. 9601.0090	**On request**
Sercos			
EtherCAT			
PROFINET			
EtherNet / IP	Connector set: Order no. 9601.0112	Connector set: Order no. 9601.0317	
POWERLINK			
IO-Link	Connector: Order no. 9601.0107	-	

[1] see in order code under D

Screw cap to cover the second bus connection
(for PSS/PSW)

Order no. 9601.0176

Jog key box
(for Option T in section D of the Order code)

Order no. 9601.0241

Software

Use our function blocks, description files or commissioning tools for the various industrial protocols. You can download the files under **www.halstrup-walcher.de/en/software**. To do this, enter your specific product in the drop-down menu that appears and select the Software tab in the tab view. After that, the software components are available to you.
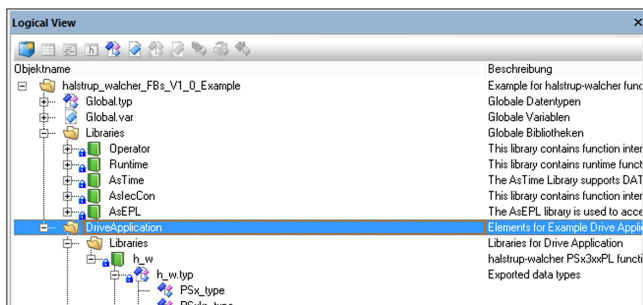
You want to see our products in person?

We are represented at numerous trade fairs and will be happy to advise you. Visit us on site and let us find the ideal solution together. You can find our current exhibition dates and product news at:

www.halstrup-walcher.de/en/news/