

OVERVIEW OF SPINDLE DRIVES																		
Type	Form	Model		Stroke	Force		Speed		Stroke in	Cut- off current	Use			Loca- tion		Functio		ns
		Type of cut-off	Rated voltage	Range	Pushing force	Pulling force	OPEN	CLOSE	s 09	Max.	Natural ventilation	SHEV	NSHEV	Facade	Roof	Run monitoring	Synchronised run	Sequence control
			[VDC]	[mm]	[N]	[N]	[mm/s]	[mm/s]	[mm]	[A]								
PLA	PLA6	S3	24	100–1000	600	600	6,0	6,0	350	0,8	•	•	•		•	•		•
		S12		100-1000	600	600	6,0	6,0	350	0,8	•	•	•		•	•	•	•
	PLA8	S3	24	100-1000	800	800	10,0	10,0	600	1,4	•	•	•		•	•		•
		S12		100-1000	800	800	10,0	10,0	600	1,4	•	•					•	
	PLA10	S12	24	100-1000	1000	1000	12,6	12,6	750	2,5	•	•	•		•	•	•	•
	PLA101	S3	24	100-1000	1000	1000	4,6	4,6	250	1,0	•	•	•		•	•		•
		S12		100-1000	1000	1000	4,6	4,6	250	1,0		•			•		•	•
	PLA16	S12		100-1000	1600	1600	7,0	7,0	400	2,5	•	•	•		•	•	•	•
	PLA116	S3	24	100–750	1600	1600	4,0	4,0	240	1,2		•	•		•			•
		S12		100–750	1600	1600	4,0	4,0	240	1,2	•	•	•		•	•	•	
PLS	PLS15	S12	24	300-1000	1500	1500	16,0	16,0	950	4,0	•	•	•		•	•	•	•
	PLS30	S12	24	300-1000	3000	2000	7,8	7,8	450	5,0	•	•	•				•	
	PLS50	S12	24	200–750	5000	5000	4,0	4,0	240	4,2	•	•	•		•	•	•	•
SP	SP8	S2	24	100-750	800	800	7,0	7,0	400	1,0		•			•	0		0
		S2	230	300–750	800	800	7,0	7,0	400	0,2					•			

LEGEND

suitable not recommended

S2 internal load dependend cut-off switch

internal load dependend cut-off switch, post cycle resistant, programmable for motion monitoring (up to 300 mm stroke) and sequence control

S12 internal intelligent cut-off switch for synchronised run and programmable functions

O only with external modules (cut-off switch system, synchronisation module, sequence control module)





PLA SPINDLE DRIVES

■ Model 24V DC, S3 und S12

■ Pulling force 600–1600 N (type depending)

■ Stroke length 100–1000 mm

Speed 4,0–12,5 mm/s (type depending)
Housing (DxL) D=36 mm, length depends on stroke

Opening mechanism stainless steel spindle tubeVersions SOLO, Tandem, Synchro

■ Protection rating IP65



PLS SPINDLE DRIVES

■ Model 24V DC, S12
■ Pulling force 1500–5000 N
■ Stroke length 300–1200 mm

■ Speed 4,0–17,0 mm/s (type depending)

■ Housing (DxL) D=50/(60) mm, length depends on stroke

Opening mechanism stainless steel spindle tubeVersions SOLO, Tandem, Synchro

■ Protection rating IP54



SP SPINDLE DRIVES

■ Model 24V DC, S2/230V AC, S2

■ Pulling force 800 N

■ Stroke length 100–750 mm (230V AC: 300–750)

■ Speed 8,5 mm/s

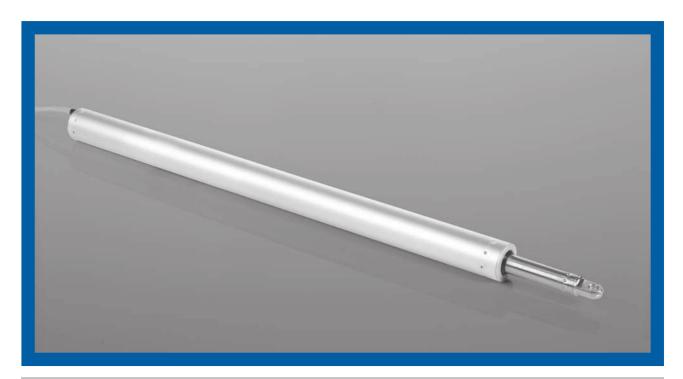
■ Housing (DxL) 43x76 mm, length depends on stroke

■ Opening mechanism aluminium spindle tube

■ Versions SOLO, Z with feedback contact

■ Protection rating IP54/IP65





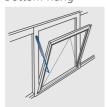
SPECIAL FEATURES PLA

- For natural ventilation, smoke and heat exhausting and ferralux® NSHEV (EN12101-2)
- Robust corrosion-resistant design in a slim aluminium housing (D = 36 mm)
- Easy installation due to adjustable clamp ring and rear suspension
- Stainless steel spindle and spindle tube, ball beared with end position dampening
- Programmable parameters of intelligent S12 electronic cut-off switch
 - Synchronised multi-operation and sequence control without add. devices
 - Electronic soft-start, soft-close and soft-stop at end of stroke control
 - Stroke, force, speed
 - Rebate control



FACADE

Bottom-hung





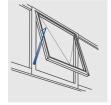






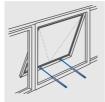


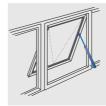
Top-hung

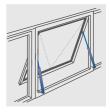






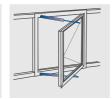


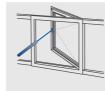


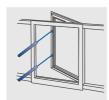


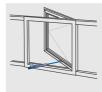
Side-hung













ROOF

Bottom-hung



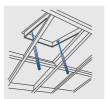




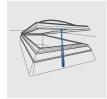
Top-hung

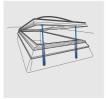






Sky light





Glass pyramid







OVERVIEW OF SPINDLE DRIVES																		
Type	Form	Model		Stroke	Force		Speed		Stroke in	Cut- off current	Use			Loca- tion		Functio		ns
		Type of cut-off	Rated voltage	Range	Pushing force	Pulling force	OPEN	CLOSE	s 09	Max.	Natural ventilation	SHEV	NSHEV	Facade	Roof	Run monitoring	Synchronised run	Sequence control
			[VDC]	[mm]	[N]	[N]	[mm/s]	[mm/s]	[mm]	[A]								
PLA	PLA6	S3	24	100–1000	600	600	6,0	6,0	350	0,8	•	•	•		•	•		•
		S12		100-1000	600	600	6,0	6,0	350	0,8	•	•	•		•	•	•	•
	PLA8	S3	24	100-1000	800	800	10,0	10,0	600	1,4	•	•	•		•	•		•
		S12		100-1000	800	800	10,0	10,0	600	1,4	•	•					•	
	PLA10	S12	24	100-1000	1000	1000	12,6	12,6	750	2,5	•	•	•		•	•	•	•
	PLA101	S3	24	100-1000	1000	1000	4,6	4,6	250	1,0	•	•	•		•	•		•
		S12		100-1000	1000	1000	4,6	4,6	250	1,0		•			•		•	•
	PLA16	S12		100-1000	1600	1600	7,0	7,0	400	2,5	•	•	•		•	•	•	•
	PLA116	S3	24	100–750	1600	1600	4,0	4,0	240	1,2		•	•		•			•
		S12		100–750	1600	1600	4,0	4,0	240	1,2	•	•	•		•	•	•	
PLS	PLS15	S12	24	300-1000	1500	1500	16,0	16,0	950	4,0	•	•	•		•	•	•	•
	PLS30	S12	24	300-1000	3000	2000	7,8	7,8	450	5,0	•	•	•				•	
	PLS50	S12	24	200–750	5000	5000	4,0	4,0	240	4,2	•	•	•		•	•	•	•
SP	SP8	S2	24	100-750	800	800	7,0	7,0	400	1,0		•			•	0		0
		S2	230	300–750	800	800	7,0	7,0	400	0,2					•			

LEGEND

suitable not recommended

S2 internal load dependend cut-off switch

internal load dependend cut-off switch, post cycle resistant, programmable for motion monitoring (up to 300 mm stroke) and sequence control

S12 internal intelligent cut-off switch for synchronised run and programmable functions

O only with external modules (cut-off switch system, synchronisation module, sequence control module)





PLA SPINDLE DRIVES

■ Model 24V DC, S3 und S12

■ Pulling force 600–1600 N (type depending)

■ Stroke length 100–1000 mm

Speed 4,0–12,5 mm/s (type depending)
Housing (DxL) D=36 mm, length depends on stroke

Opening mechanism stainless steel spindle tubeVersions SOLO, Tandem, Synchro

■ Protection rating IP65



PLS SPINDLE DRIVES

■ Model 24V DC, S12
■ Pulling force 1500–5000 N
■ Stroke length 300–1200 mm

■ Speed 4,0–17,0 mm/s (type depending)

■ Housing (DxL) D=50/(60) mm, length depends on stroke

Opening mechanism stainless steel spindle tubeVersions SOLO, Tandem, Synchro

■ Protection rating IP54



SP SPINDLE DRIVES

■ Model 24V DC, S2/230V AC, S2

■ Pulling force 800 N

■ Stroke length 100–750 mm (230V AC: 300–750)

■ Speed 8,5 mm/s

■ Housing (DxL) 43x76 mm, length depends on stroke

■ Opening mechanism aluminium spindle tube

■ Versions SOLO, Z with feedback contact

■ Protection rating IP54/IP65





SPECIAL FEATURES PLS

- For natural ventilation, smoke and heat exhausting and ferralux® NSHEV (EN12101-2)
- Powerful heavy duty drives for loads up to 5000 N
- Robust corrosion-resistant design in aluminium housing (D = 50 mm)
- Easy installation due to adjustable clamp ring (Rear suspension on request)
- Stainless steel spindle, ball beared with end position dampening and gentle soft-start and soft-stop mode
- Programmable parameters of intelligent S12 electronic cut-off switch
 - Synchronised multi-operation and sequence control without add. devices
 - Electronic soft-start, soft-close and soft-stop at end of stroke control
 - Stroke, force, speed
 - Rebate control



FACADE

Bottom-hung



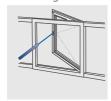


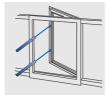
Top-hung





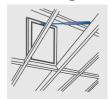
Side-hung





ROOF

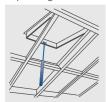
Bottom-hung

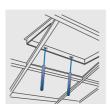


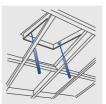




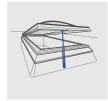
Top-hung

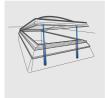




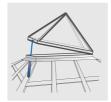


Skylight





Glass pyramid







OVERVIEW OF SPINDLE DRIVES																		
Type	Form	Model		Stroke	Force		Speed		Stroke in	Cut- off current	Use			Loca- tion		Functio		ns
		Type of cut-off	Rated voltage	Range	Pushing force	Pulling force	OPEN	CLOSE	s 09	Max.	Natural ventilation	SHEV	NSHEV	Facade	Roof	Run monitoring	Synchronised run	Sequence control
			[VDC]	[mm]	[N]	[N]	[mm/s]	[mm/s]	[mm]	[A]								
PLA	PLA6	S3	24	100–1000	600	600	6,0	6,0	350	0,8	•	•	•		•	•		•
		S12		100-1000	600	600	6,0	6,0	350	0,8	•	•	•		•	•	•	•
	PLA8	S3	24	100-1000	800	800	10,0	10,0	600	1,4	•	•	•		•	•		•
		S12		100-1000	800	800	10,0	10,0	600	1,4	•	•					•	
	PLA10	S12	24	100-1000	1000	1000	12,6	12,6	750	2,5	•	•	•		•	•	•	•
	PLA101	S3	24	100-1000	1000	1000	4,6	4,6	250	1,0	•	•	•		•	•		•
		S12		100-1000	1000	1000	4,6	4,6	250	1,0		•			•		•	•
	PLA16	S12		100-1000	1600	1600	7,0	7,0	400	2,5	•	•	•		•	•	•	•
	PLA116	S3	24	100–750	1600	1600	4,0	4,0	240	1,2		•	•		•			•
		S12		100–750	1600	1600	4,0	4,0	240	1,2	•	•	•		•	•	•	
PLS	PLS15	S12	24	300-1000	1500	1500	16,0	16,0	950	4,0	•	•	•		•	•	•	•
	PLS30	S12	24	300-1000	3000	2000	7,8	7,8	450	5,0	•	•	•				•	
	PLS50	S12	24	200–750	5000	5000	4,0	4,0	240	4,2	•	•	•		•	•	•	•
SP	SP8	S2	24	100-750	800	800	7,0	7,0	400	1,0		•			•	0		0
		S2	230	300–750	800	800	7,0	7,0	400	0,2					•			

LEGEND

suitable not recommended

S2 internal load dependend cut-off switch

internal load dependend cut-off switch, post cycle resistant, programmable for motion monitoring (up to 300 mm stroke) and sequence control

S12 internal intelligent cut-off switch for synchronised run and programmable functions

O only with external modules (cut-off switch system, synchronisation module, sequence control module)





PLA SPINDLE DRIVES

■ Model 24V DC, S3 und S12

■ Pulling force 600–1600 N (type depending)

■ Stroke length 100–1000 mm

Speed 4,0–12,5 mm/s (type depending)
Housing (DxL) D=36 mm, length depends on stroke

Opening mechanism stainless steel spindle tubeVersions SOLO, Tandem, Synchro

■ Protection rating IP65



PLS SPINDLE DRIVES

■ Model 24V DC, S12
■ Pulling force 1500–5000 N
■ Stroke length 300–1200 mm

■ Speed 4,0–17,0 mm/s (type depending)

■ Housing (DxL) D=50/(60) mm, length depends on stroke

Opening mechanism stainless steel spindle tubeVersions SOLO, Tandem, Synchro

■ Protection rating IP54



SP SPINDLE DRIVES

■ Model 24V DC, S2/230V AC, S2

■ Pulling force 800 N

■ Stroke length 100–750 mm (230V AC: 300–750)

■ Speed 8,5 mm/s

■ Housing (DxL) 43x76 mm, length depends on stroke

■ Opening mechanism aluminium spindle tube

■ Versions SOLO, Z with feedback contact

■ Protection rating IP54/IP65





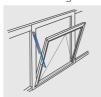
SPECIAL FEATURES SP

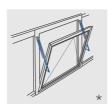
- For natural ventilation, smoke and heat exhausting systems
- Robust corrosion-resistant design
- Aluminium housing anodized finish with plastic end caps
- Easy installation due to lateral dovetail guidence
- Phosphated steel spindle, aluminium spindle tube anodised finisch, damped end positions
- Available in 24 V DC and 230 V AC



FACADE

Bottom-hung











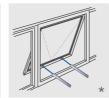


Top-hung













Side-hung













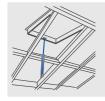
ROOF

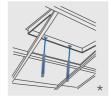
Bottom-hung



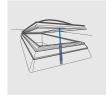


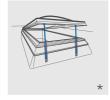
Top-hung





Skylight





Glass pyramid



 $[\]star$ Monitored motion run up to s = 300 mm with USKM (Controll modul Part.-No.: 512140)