

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), optionally in RAL colors
- Easy installation due to adjustable clamp ring and rear suspension
- Spindle is ball beared with end position dampening
- Stainless steel spindle tube
- Programmable parameters of Intelligent Control Electronics S12
 - 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
- Protection rating IP 65
- With GoreTex membrane
- Suitable for operation with M-COM for the automatic configuration of synchronised run of multi drive systems and sequence control

For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

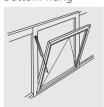
The LCA results of the different product types are listed at the end of this product catalogue.

The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.



FACADE

Bottom-hung













Top-hung









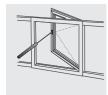




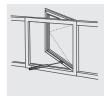
Side-hung













ROOF

Bottom-hung







Top-hung







Sky light



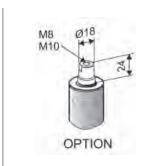


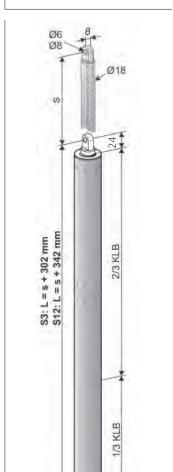
Glass pyramid











- Application: natural ventilation, SHEV, ferralux®-NSHEV Options
- Spindle tube end with interior thread for clevis
- Eyebolt and clevis for rear suspention

S3

- Internal load dependend cut-off switch, post cycle resistant S3
- Programmable motion monitored run (up to 300 mm stroke)
- Programmable sequence control with Locking drives (S3 / S12)

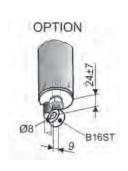
S12

■ Internal Intelligent Control Electronics S12

Intions

- Programmable synchronised run (max. 4 drives) and special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)

TECI	HNICAL DATA	
U _N	Rated voltage	24V DC (19 V 28 V)
I _N	Rated current	0,6 A
I _A	Cut-off current	0,8 A
P_{N}	Rated power	15 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 65
1	Ambient temperature range	-5 °C +60 °C
F _z	Pulling force max.	600 N
F _A	Pushing force max.	F (N) Schub Push 600 500 400



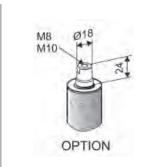
\mathbf{F}_{H}	Pullout force	5000 N (fastening depended)
	Spindle tube	stainless steel
	Connecting cable	non-halogen, grey 3 x 1,0 mm², ~ 3 m
V	Speed	⅓ 6,0 mm/s
s	Stroke	100 – 1200 mm
L	Length	(S3): s + 302 mm (S12): s + 342 mm see order data
	Sound pressure level	≤ 70 dB (A)

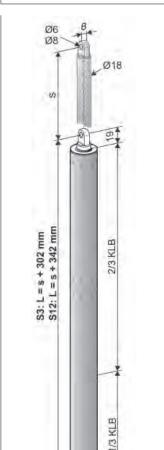


ORDEF	R DATA					
s [mm]	L [mm]	Version	Finish	PU/pcs.	PartNo.	
100	402	PLA6 100 S3	E6/C-0	1	564110	
100	442	PLA6 100 S12	L0/C-0	1	546310	
200	502	PLA6 200 S3	E6/C-0	1	564121	
200	542	PLA6 200 S12	10,0-0	1	546320	
300	602	PLA6 300 S3	E6/C-0	1	564130	
300	642	PLA6 300 S12		1	546330	
400	702	PLA6 400 S3	E6/C-0	1	564140	
400	742	PLA6 400 S12		1	546340	
500	802	PLA6 500 S3	F6/6 0	1	564150	
500	842	PLA6 500 S12	E6/C-0	1	546350	
600	902	PLA6 600 S3	FC/C O	1	564160	
600	942	PLA6 600 S12	E6/C-0	1	546360	
750	1052	PLA6 750 S3	FC/C O	1	564175	
750	1092	PLA6 750 S12	E6/C-0	1	546375	
4000	1302	PLA6 1000 S3	F6/6 0	1	564200	
1000	1342	PLA6 1000 S12	E6/C-0	1	546400	

OPTIONS		
Special model	PU/pcs.	PartNo.
Front Fixing		
Spindle tube end with interior thread M8	1	515061
Spindle tube end with interior thread M10	1	515060
Drive housing painted/powder coated in other RAL colours		
Lump sum for coating		516030
	1 – 20	516004
Specify at order stage:	21 – 50	516004
specify at order stage.	51 – 100	516004
	from 101	516004
Extra length connecting cable:		
5 m – non-halogen, grey – 3 x 1,0 mm²		501037
10 m – non-halogen, grey – 3 x 1,0 mm ²		501039
Mechanic stroke reduction S3		
Stroke reduction without construction length - mechanically	1	516000
Accessories for front / rear suspension		
B16ST Eyebolt Ø8 mm, galvanized	1	100044
B16VA Eyebold Ø8 mm, stainless steel	1	100144
B27ST Clevis M8x16 mm, galvanized, thread M8x45 mm	1	105510
B28ST Clevis M10x20 mm, galvanized, thread M10x50 mm	1	105520
Microprocessor programming S3		
Motion monitored run / sequence control	1	524181
Microprocessor programming S12		
Electronic stroke reduction 24V S12	1	524190
Programming drives 24V / 230V S12	1	524180
Other lengths available on request		
Optional accessories	PU/pcs.	PartNo.
M-COM Configuration module for synchronised multi-drive systems	1	524177







- Application: natural ventilation, SHEV, ferralux®-NSHEV
- Options
- Spindle tube end with interior thread for clevis
- Eyebolt and clevis for rear suspention

S3

- Internal load dependend cut-off switch, post cycle resistant S3
- Programmable motion monitored run (up to 300 mm stroke)
- Programmable sequence control with locking drives (S3 / S12)

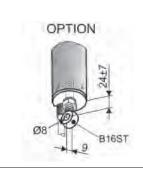
S12

■ Internal Intelligent Control Electronics S12

Options

- Programmable synchronised run (max. 4 drives) and special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)

TECH	HNICAL DATA	
$U_{_{\rm N}}$	Rated voltage	24V DC (19 V 28 V)
I _N	Rated current	1,0 A
I _A	Cut-off current	1,4 A
P_{N}	Rated power	24 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 65
1	Ambient temperature range range	-5 °C +60 °C
F _z	Pulling force max.	800 N
F _A	Pushing force max.	F (N) Schub Push 800 700 600 400

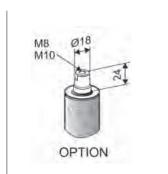


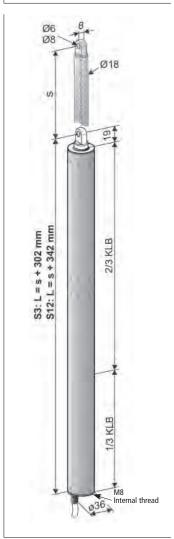
$\mathbf{F}_{_{\mathrm{H}}}$	Pullout force	5000 N (fastening depended)
	Spindle tube	stainless steel
	Connecting cable	non-halogen, grey 3 x 1,0 mm², ~ 3 m
V	Speed	⅓ 10,0 mm/s 🛂 10,0 mm/s
S	Stroke	100 – 1200 mm
L	Length	(S3): s + 302 mm (S12): s + 342 mm see order data
	Sound pressure level	≤ 70 dB (A)



ORDEF	R DATA					
s [mm]	L [mm]	Version	Finish	PU/pcs.	PartNo.	
100	402	PLA8 100 S3	E6/C-0	1	523710	
100	442	PLA8 100 S12	L0/C-0	1	515210	
200	502	PLA8 200 S3	E6/C-0	1	523720	
200	542	PLA8 200 S12	E6/C-U	1	515220	
200	602	PLA8 300 S3	FC/C 0	1	523730	
300	642	PLA8 300 S12	E6/C-0	1	515230	
400	702	PLA8 400 S3	F6/6 0	1	523740	
400	742	PLA8 400 S12	E6/C-0	1	515240	
500	802	PLA8 500 S3	F6/6 0	1	523750	
500	842	PLA8 500 S12	E6/C-0	1	515250	
600	902	PLA8 600 S3	F6/6 0	1	523760	
600	942	PLA8 600 S12	E6/C-0	1	515260	
750	1052	PLA8 750 S3	F6/6 0	1	523775	
750	1092	PLA8 750 S12	E6/C-0	1	515275	
1000	1302	PLA8 1000 S3	5616.0	1	523800	
1000	1342	PLA8 1000 S12	E6/C-0	1	515295	

OPTIONS			
Special model	PU/pcs.	PartNo.	
Front Fixing			
Spindle tube end with interior thread M8	1	515061	
Spindle tube end with interior thread M10	1	515060	
Drive housing painted/powder coated in other RAL colours			
Lump sum for coating		516030	
	1 – 20	516004	
Specify at order stage:	21 – 50	516004	
specify at order stage.	51 – 100	516004	
	from 101	516004	
Extra length connecting cable:			
5 m – non-halogen, grey – 3 x 1,0 mm²		501037	
10 m – non-halogen, grey – 3 x 1,0 mm ²		501039	
Mechanic stroke reduction S3			
Stroke reduction without construction length - mechanically	1	516000	
Accessories for front / rear suspension			
B16ST Eyebolt Ø8 mm, galvanized	1	100044	
B16VA Eyebold Ø8 mm, stainless steel	1	100144	
B27ST Clevis M8x16 mm, galvanized, thread M8x45 mm	1	105510	
B28ST Clevis M10x20 mm, galvanized, thread M10x50 mm	1	105520	
Microprocessor programming S3			
Motion monitored run / sequence control	1	524181	
Microprocessor programming S12			
Electronic stroke reduction 24V S12	1	524190	
Programming drives 24V / 230V S12	1	524180	
Other lengths available on request			
Optional accessories	PU/pcs.	PartNo.	
M-COM Configuration module for synchronised multi-drive systems	1	524177	





- Application: natural ventilation, SHEV, ferralux®-NSHEV
- Options
- Spindle tube end with interior thread for clevis
- Eyebolt and clevis for rear suspention

S3

- Internal load dependend cut-off switch, post cycle resistant S3
- Programmable motion monitored run (up to 300 mm stroke)
- Programmable sequence control with locking drives (S3 / S12)

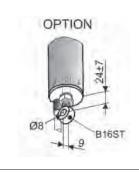
S12

■ Internal Intelligent Control Electronics S12

Options

- Programmable synchronised run (max. 4 drives) and special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)

TECH	HNICAL DATA	
U _N	Rated voltage	24V DC (19 V 28 V)
I _N	Rated current	0,8 A
I_A	Cut-off current	1,0 A
P_{N}	Rated power	19 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 65
1	Ambient temperature range	-5 °C +60 °C
F _z	Pulling force max.	1000 N
$\mathbf{F}_{\!\scriptscriptstyle{\mathrm{A}}}$	Pushing force max.	F (N) Schub Push 1000 800 600 400 900 1000 1100 1200 S (mm)



\mathbf{F}_{H}	Pullout force	5000 N (fastening depended)
	Spindle tube	stainless steel
	Connecting cable	non-halogen, grey 3 x 1,0 mm², ~ 3 m
V	Speed	X ₌ 4,6 mm/s ≥ 4,6 mm/s
s	Stroke	100 – 1200 mm
L	Length	S3: s + 302 mm S12: s + 342 mm see order data
	Sound pressure level	≤ 70 dB (A)

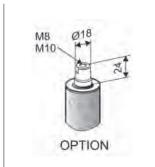


ORDE	R DATA					
s [mm]	L [mm]	Version	Finish	PU/pcs.	PartNo.	
100	402	PLA101 100 S3	E6/C-0	1	565110	
100	442	PLA101 100 S12	L0/C-0	1	564910	
200	502	PLA101 200 S3	E6/C-0	1	565120	
200	542	PLA101 200 S12	E6/C-U	1	564922	
200	602	PLA101 300 S3	56/6 0	1	565130	
300	642	PLA101 300 S12	E6/C-0	1	564930	
400	702	PLA 01 400 S3	F6/6 0	1	565140	
400	742	PLA101 400 S12	E6/C-0	1	564940	
500	802	PLA101 500 S3	F6/6 0	1	565150	
500	842	PLA101 500 S12	E6/C-0	1	564950	
500	902	PLA101 600 S3	56/6.0	1	565160	
600	942	PLA101 600 S12	E6/C-0	1	564960	
750	1052	PLA101 750 S3	56/6 0	1	565175	
750	1092	PLA101 750 S12	E6/C-0	1	564975	
1000	1302	PLA101 1000 S3	FC/C 0	1	565200	
1000	1342	PLA101 1000 S12	E6/C-0	1	565000	

OPTIONS			
Special model	PU/pcs.	PartNo.	
Front Fixing			
Spindle tube end with interior thread M8	1	515061	
Spindle tube end with interior thread M10	1	515060	
Drive housing painted/powder coated in other RAL colours			
Lump sum for coating		516030	
	1 – 20	516004	
Specify at order stage:	21 – 50	516004	
specify at order stage.	51 – 100	516004	
	from 101	516004	
Extra length connecting cable:			
5 m – non-halogen, grey – 3 x 1,0 mm ²		501037	
10 m – non-halogen, grey – 3 x 1,0 mm ²		501039	
Mechanic stroke reduction S3			
Stroke reduction without construction length - mechanically	1	516000	
Accessories for front / rear suspension			
B16ST Eyebolt Ø8 mm, galvanized	1	100044	
B16VA Eyebold Ø8 mm, stainless steel	1	100144	
B27ST Clevis M8x16 mm, galvanized, thread M8x45 mm	1	105510	
B28ST Clevis M10x20 mm, galvanized, thread M10x50 mm	1	105520	
Microprocessor programming S3			
Motion monitored run / sequence control	1	524181	
Microprocessor programming S12			
Electronic stroke reduction 24V S12	1	524190	
Programming drives 24V / 230V S12	1	524180	
Other lengths available on request			
Optional accessories	PU/pcs.	PartNo.	
M-COM Configuration module for synchronised multi-drive systems	1	524177	







■ Application: natural ventilation, SHEV, ferralux®-NSHEV

- Spindle tube end with interior thread for clevis
- Eyebolt and clevis for rear suspention

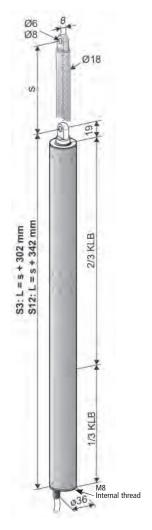
S3

- Internal load dependend cut-off switch, post cycle resistant S3
- Programmable motion monitored run (up to 300 mm stroke)
- Programmable sequence control with locking drives (S3 / S12)

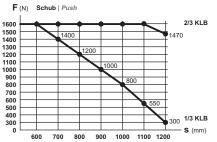


■ Internal Intelligent Control Electronics S12

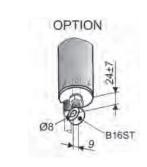
- Programmable synchronised run (max. 4 drives) and special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)



TECI	HNICAL DATA	
$U_{_{\rm N}}$	Rated voltage	24V DC (19 V 28 V)
I _N	Rated current	1,0 A
I_A	Cut-off current	1,2 A
P_{N}	Rated power	24 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 65
1	Ambient temperature range	-5 °C +60 °C
F _z	Pulling force max.	1600 N
\mathbf{F}_{A}	Pushing force max.	F(N) Schub Push



\mathbf{F}_{H}	Pullout force	5000 N (fastening depended)
	Spindle tube	stainless steel
	Connecting cable	non-halogen, grey 3 x 1,0 mm², ~ 3 m
V	Speed	⅓ ₌ 4,0 mm/s 🛌 4,0 mm/s
S	Stroke	100 – 1200 mm
L	Length	S3: s + 302 mm S12: s + 342 mm see order data
	Sound pressure level	≤ 70 dB (A)

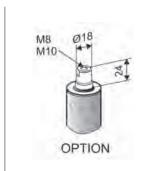




ORDEF	R DATA						
s [mm]	L [mm]	Version	Finish	PU/pcs.	PartNo.		
100	402	PLA 116 100 S3	E6/C-0	1	565310		
100	442	PLA 116 100 S12	E6/C-U	1	565510		
200	502	PLA 116 200 S3	E6/C-0	1	565320		
200	542	PLA 116 200 S12	E6/C-0	1	565520		
300	602	PLA 116 300 S3	E6/C-0	1	565330		
300	642	PLA 116 300 S12	L0/C-0	1	565530		
400	702	PLA 116 400 S3	E6/C-0	1	565340		
400	742	PLA 116 400 S12	L0/C-0	1	565540		
500	802	PLA 116 500 S3	E6/C-0	1	565350		
500	842	PLA 116 500 S12	E6/C-0	1	565550		
600	902	PLA 116 600 S3	E6/C-0	1	565360		
600	942	PLA 116 600 S12	E0/C-U	1	565560		
750	1052	PLA 116 750 S3	E6/C-0	1	565375		
750	1092	PLA 116 750 S12	E0/C-0	1	565575		

OPTIONS			
Special model	PU/pcs.	PartNo.	
Front Fixing			
Spindle tube end with interior thread M8	1	515061	
Spindle tube end with interior thread M10	1	515060	
Drive housing painted/powder coated in other RAL colours			
Lump sum for coating		516030	
	1 – 20	516004	
Specify at order stage:	21 – 50	516004	
specify at order stage.	51 – 100	516004	
	from 101	516004	
Extra length connecting cable:			
5 m – non-halogen, grey – 3 x 1,0 mm²		501037	
10 m – non-halogen, grey – 3 x 1,0 mm²		501039	
Mechanic stroke reduction S3			
Stroke reduction without construction length - mechanically	1	516000	
Accessories for front / rear suspension			
B16ST Eyebolt Ø8 mm, galvanized	1	100044	
B16VA Eyebold Ø8 mm, stainless steel	1	100144	
B27ST Clevis M8x16 mm, galvanized, thread M8x45 mm	1	105510	
B28ST Clevis M10x20 mm, galvanized, thread M10x50 mm	1	105520	
Microprocessor programming S3			
Motion monitored run / sequence control	1	524181	
Microprocessor programming S12			
Electronic stroke reduction 24V S12	1	524190	
Programming drives 24V / 230V S12	1	524180	
Other lengths available on request			
Optional accessories	PU/pcs.	PartNo.	
M-COM Configuration module for synchronised multi-drive systems	1	524177	

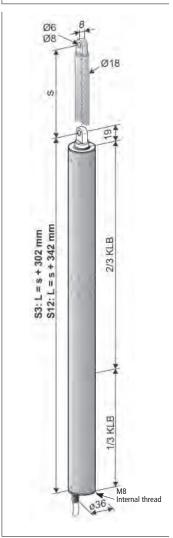




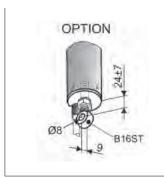
- Application: natural ventilation, SHEV, ferralux®-NSHEV
- Internal Intelligent Control Electronics S12

Options

- Programmable synchronised run (max. 4 drives) and special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)
- Spindle tube end with interior thread for clevis
- Eyebolt and clevis for rear suspention



TECI	HNICAL DATA	
$\mathbf{U}_{_{\mathrm{N}}}$	Rated voltage	24V DC (19 V 28 V)
I _N	Rated current	1,9 A
I_A	Cut-off current	2,5 A
P_{N}	Rated power	45 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 65
1	Ambient temperature range	-5 °C +60 °C
F _z	Pulling force max.	1000 N
F _A	Pushing force max.	F (N) Schub Push 1000 800 400 900 1000 1100 1200 1/3 KLB 5 (mm)
F _H	Pullout force	5000 N (fastening depended)
	Spindle tube	stainless steel
	Connecting cable	non-halogen, grey 3 x 1,0 mm², ~ 3 m
v	Speed	X ₌ 12,6 mm/s
s	Stroke	100 – 1200 mm
L	Length	s + 342 mm see order data
	Sound pressure level	≤ 70 dB (A)





ORDER	ORDER DATA								
s [mm]	L [mm]	Version	Finish	PU/pcs.	PartNo.				
100	442	PLA 10 100 S12	E6/C-0	1	523610				
200	542	PLA 10 200 S12	E6/C-0	1	523620				
300	642	PLA 10 300 S12	E6/C-0	1	523630				
400	742	PLA 10 400 S12	E6/C-0	1	523640				
500	842	PLA 10 500 S12	E6/C-0	1	523650				
600	942	PLA 10 600 S12	E6/C-0	1	523660				
750	1092	PLA 10 750 S12	E6/C-0	1	523675				
1000	1342	PLA 10 1000 S12	E6/C-0	1	523700				

OPTIONS			
Special model	PU/pcs.	PartNo.	
Front Fixing			
Spindle tube end with interior thread M8	1	515061	
Spindle tube end with interior thread M10	1	515060	
Drive housing painted/powder coated in other RAL colours			
Lump sum for coating		516030	
	1 – 20	516004	
Specify at order stage:	21 – 50	516004	
Specify at order stage.	51 – 100	516004	
	from 101	516004	
Extra length connecting cable:			
5 m – non-halogen, grey – 3 x 1,0 mm²		501037	
10 m – non-halogen, grey – 3 x 1,0 mm²		501039	
Mechanic stroke reduction S3			
Stroke reduction without construction length - mechanically	1	516000	
Accessories for front / rear suspension			
B16ST Eyebolt Ø8 mm, galvanized	1	100044	
B16VA Eyebold Ø8 mm, stainless steel	1	100144	
B27ST Clevis M8x16 mm, galvanized, thread M8x45 mm	1	105510	
B28ST Clevis M10x20 mm, galvanized, thread M10x50 mm	1	105520	
Microprocessor programming S12			
Electronic stroke reduction 24V S12	1	524190	
Programming drives 24V / 230V S12	1	524180	
Other lengths available on request			
Optional accessories	PU/pcs.	PartNo.	
M-COM Configuration module for synchronised multi-drive systems	1	524177	

Spindle drives





2/3 KLB

300 1/3 KLB

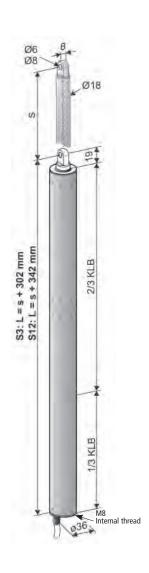
1100 1200



- Application: natural ventilation, SHEV, ferralux®-NSHEV
- Internal Intelligent Control Electronics S12

Options

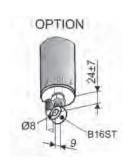
- Programmable synchronised run (max. 4 drives) and special functions
- M-COM for automatic synchronised run of multi drive systems and automatic sequence control with locking drives (S3 / S12)
- Spindle tube end with interior thread for clevis
- Eyebolt and clevis for rear suspention



TECI	HNICAL DATA	
U _N	Rated voltage	24V DC (19 V 28 V)
I _N	Rated current	1,9 A
I_A	Cut-off current	2,5 A
P_{N}	Rated power	45 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 65
1	Ambient temperature range	-5 °C +60 °C
F _z	Pulling force max.	1600 N
F_A	Pushing force max.	F(N) Schub Push

		000 700 000 300 1000 1100 1200
F _H	Pullout force	5000 N (fastening depended)
	Spindle tube	stainless steel
	Connecting cable	non-halogen, grey 3 x 1,0 mm², ~ 3 m
V	Speed	X _∗ 7,0 mm/s ≥ 7,0 mm/s
S	Stroke	100 – 1200 mm
L	Length	s + 342 mm see order data
	Sound pressure level	≤ 70 dB (A)

800 900 1000





ORDER	ORDER DATA								
s [mm]	L [mm]	Version	Finish	PU/pcs.	PartNo.				
100	442	PLA16 100 S12	E6/C-0	1	565710				
200	542	PLA16 200 S12	E6/C-0	1	565720				
300	642	PLA16 300 S12	E6/C-0	1	565730				
400	742	PLA16 400 S12	E6/C-0	1	565740				
500	842	PLA16 500 S12	E6/C-0	1	565750				
600	942	PLA16 600 S12	E6/C-0	1	565760				
750	1092	PLA16 750 S12	E6/C-0	1	565775				
1000	1342	PLA16 1000 S12	E6/C-0	1	565800				

OPTIONS			
Special model	PU/pcs.	PartNo.	
Front Fixing			
Spindle tube end with interior thread M8	1	515061	
Spindle tube end with interior thread M10	1	515060	
Drive housing painted/powder coated in other RAL colours			
Lump sum for coating		516030	
	1 – 20	516004	
Specify at order stage:	21 – 50	516004	
	51 – 100	516004	
Poden langeth accompation while	from 101	516004	
Extra length connecting cable:		501037	
5 m – non-halogen, grey – 3 x 1,0 mm²		501037	
10 m – non-halogen, grey – 3 x 1,0 mm ² Mechanic stroke reduction \$3		501039	
Stroke reduction without construction length - mechanically	1	516000	
· · · · · · · · · · · · · · · · · · ·	,	310000	
Accessories for front / rear suspension			
B16ST Eyebolt Ø8 mm, galvanized	1	100044	
B16VA Eyebold Ø8 mm, stainless steel	1	100144	
B27ST Clevis M8x16 mm, galvanized, thread M8x45 mm	1	105510	
B28ST Clevis M10x20 mm, galvanized, thread M10x50 mm	1	105520	
Microprocessor programming S12			
Electronic stroke reduction 24V S12	1	524190	
Programming drives 24V / 230V S12	1	524180	
Other lengths available on request			
Optional accessories	PU/pcs.	PartNo.	
M-COM Configuration module for synchronised multi-drive systems	1	524177	



Typical applic	ations				1	2	3	4	5	6	7	8	9	10
Frame bracke	et				K5	K5	K5	K17	K82	K122	K127	K122-1	K122-1	K7
Mounting aid	Н						K21							
Bracket acces	sories								lamping rir	na BA (36 r	nm=G1/8\			
Casement br					F29-1	F1, F1V,	F1.1, F10.6 3, F40			F29	F11	F36	F30	F12
Special applic	cation				Heroal 085D					Heroal 085 D	Wing 105D	AWS 57RO	Wictec 50	Sky light Essmann
Space require	ement		min.	[mm]	50	50	40 – 50	70	45	60	35	68	68	120
Window mat	erial		Alu		•	•	•	•	•	•	•	•	•	
			Wood			•	•	•	•					
			PVC			•	•	•	•					•
Type of window	Bot- tom	in- ward	HSK	FM RM			-							
and mounting	hung		NSK	FM										
mounting			14310	RM										
		out-	HSK	RM			•		•					
		ward		PR		•		•						
			NSK	RM										
				PR										
	Тор	in-	HSK	FM										
	hung	g ward		RM										
			NSK	FM										
				RM										
		out-	HSK	RM			•		•					
		ward		PR		•	<u> </u>	•	<u>. </u>	<u> </u>	<u>. </u>	<u> </u>		
			NSK	RM										
				PR										
	Side hung	in- ward	HSK	FM RM			-							
			NICK	_										
			NSK	FM RM										
	Roof	out-	HSK	RM	•		•		•					
	11001	ward	11310	PR		•		•						
			NSK	RM			•			•	•	•	•	
				PR		•		•						
	Sky-	out-	HSK	RM		•		•	•					•
	light	ward	NSK	RM										
FAB(*1			Solo	[mm]					450 – 130	00				600 – 12
			Sync2	[mm]					1200 – 24					1200 – 24
FAH(*1			Solo	[mm]					450 – 150					600 – 12
		Sync2	[mm]		450 – 2500						1200 – 15			

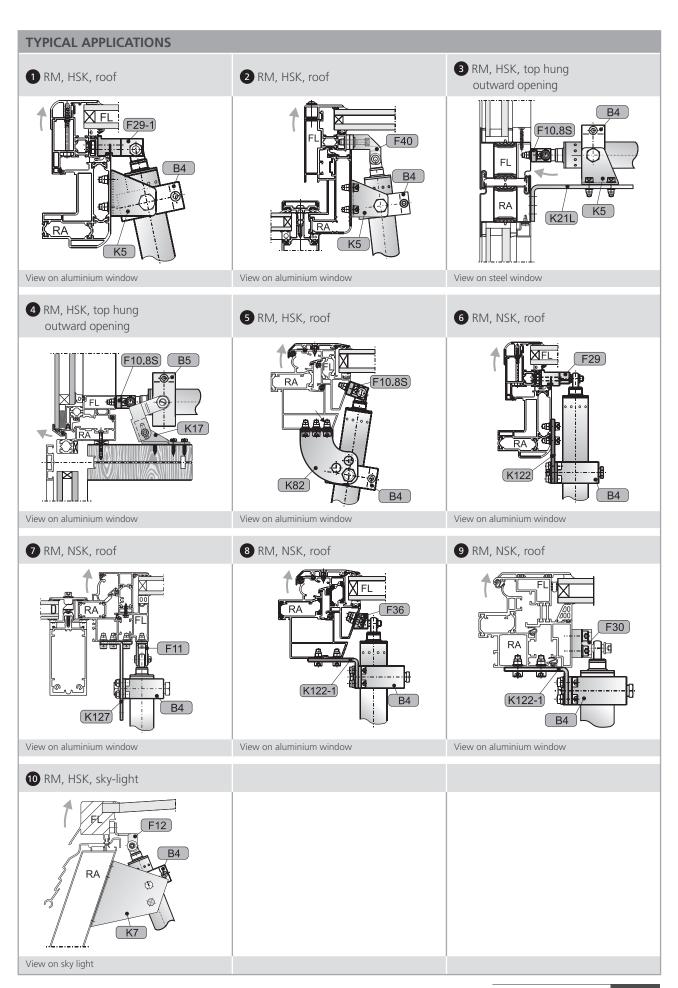
LEGEND

suitable

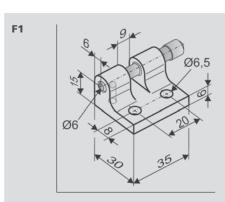
not reccomended

(*1 Sample value of the casement dimensions. The actuell casement dimensions depend on the stroke and the position of the drives to the hinges. The values of FAB/FAH are to be used analogue for side hung windows.





CASEMENT BRACKETS



Application

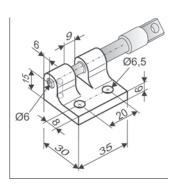
Surface mounting on the main closing edge of casement profiles of outward opening windows or skylights, for drives with front or rear suspension with bore @6 mm, manual removal of drive possible

Part.-No. 150102

max. 1000 N

Material/Finish aluminium, diecast Feature/Equipment 1x locking bolt Ø6 mm Load

F1.1



Application

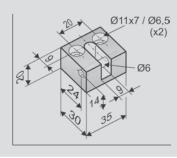
Surface mounting on the main closing edge of casement profiles of outward opening windows or skylights, for drives with front or rear suspension with bore Ø6 mm, manual removal of drive possible

Part.-No. 150110

max. 600 N

Material/Finish aluminium, diecast Feature/Equipment 1x locking spring bolt Ø6 mm Load

F1V

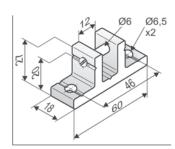


Application

Surface mounting on the main closing edge of casement profiles of outward opening windows or skylights, for drives with front or rear suspension with bore Ø6 mm Part.-No. 150101

Material/Finish aluminium Feature/Equipment 1x grubscrew Ø6 mm Load max. 1600 N

F10.6



Application

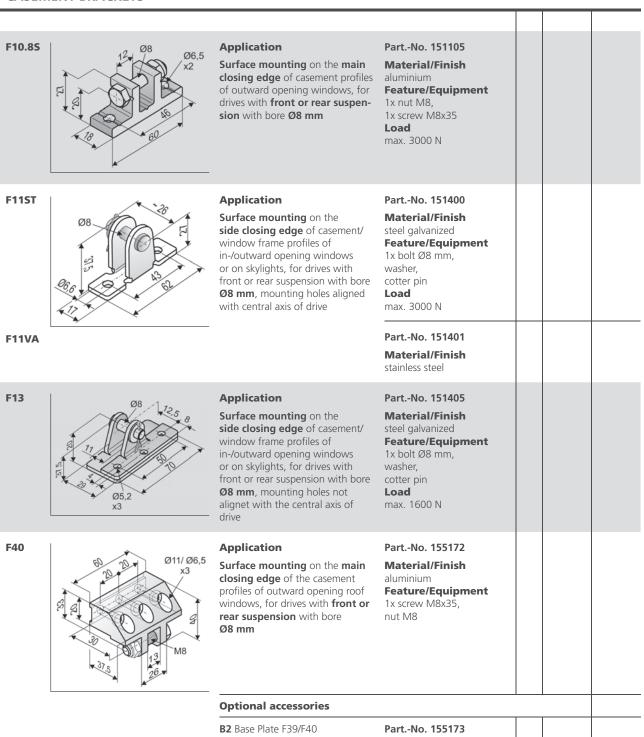
Surface mounting on main closing edge of casement profiles of outward opening windows or skylights, for drives with front or rear suspension with bore Ø6 mm, threaded stud bolt

Part.-No. 151000

Material/Finish
aluminium

Feature/Equipment
1x stud bolt Ø6 mm
Load
max. 1600 N

CASEMENT BRACKETS





FRAME BRACKETS

К5	012,5 06,5 x4	Application Surface mounting on the main closing edge of window frame profiles or on the mullion/transom of outward opening (roof-)windows, for swivelling suspension of drives PLA with B4, SP8 with B13, LKS with B7	PartNo. 155800 Material/Finish steel galvanized Feature/Equipment drilled holes Ø12,5 mm		
		Accessories			
		B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900		
		K21K Frame bracket	PartNo. 159900		
		K21L Frame bracket	PartNo. 159905		
K82	25 17.5 80 Ø6,5 x6	Application Surface mounting on the main closing edge of window frame profiles or on the mullion/transom of outward opening (roof-)windows, for swivelling suspension of drives PLA with B4, SP8 with B13, LKS with B7	PartNo. 151320 Material/Finish stainless steel Feature/Equipment drilled holes Ø12,5 mm		
		Accessories			
		B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900		
K17	95 Ca. 95	Application Surface mounting on the main closing edge of window frame profiles or on the mullion/transom of outward opening (roof-)windows, for swivelling suspension of drives PLA with B5, SP with B12	PartNo. 159200 Material/Finish steel galvanized Feature/Equipment adjustable height		
	30	Accessories			
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	B5 clamp ring PLA (Ø36 mm, Ø8 mm)	PartNo. 515825		



FRAME BRACKETS

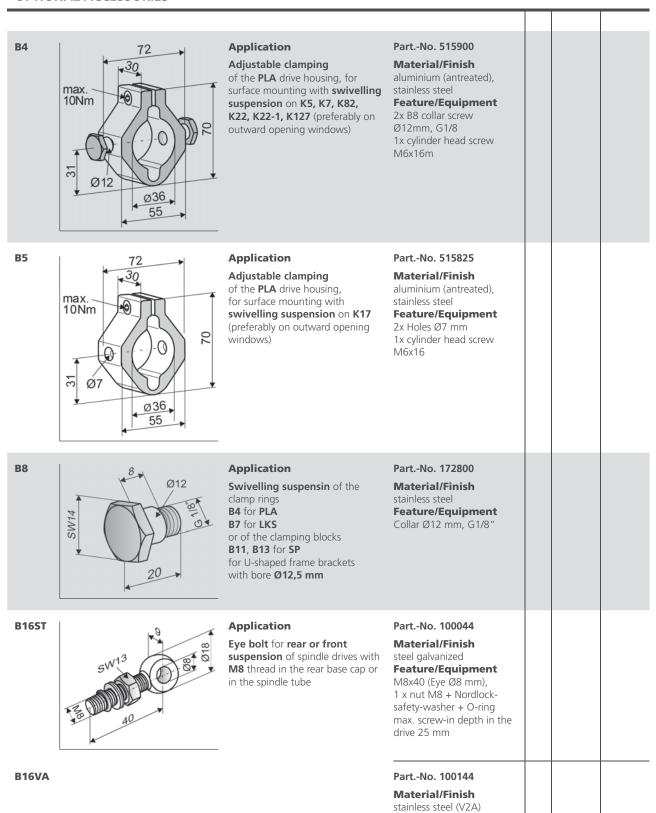
K15	L 3d	Application	PartNo. 307000		
	M8 Ø6 x6	Surface mounting on the side closing edge of window frame profiles of in-/outward opening windows, by obliquely arranged drives with rear suspension with bore Ø8 mm Required space on the frame 40 mm	Material/Finish steel galvanized Feature/Equipment H=150 mm, t=4 mm		
	1 / S / S / S	Optional accessories			
	137 139	B16ST Eyebolt (Ø8 x 40 mm ST)	PartNo. 100044		
	*	B16VA Eyebolt (Ø8 x 40 mm VA)	PartNo. 100144		
K15-Set	<u>a</u>	Application	PartNo. 517590		
K15 B16ST F11	F11	Surface mounting on the side closing edge like RWA-1000/1100 hardware sets Required space on the frame 40 mm	Material/Finish steel galvanized Feature/Equipment Set: 1x K15 1x F11ST 1x B16ST		
К37	34	Application	PartNo. 307500		
	M8 Ø6 x6	Surface mounting on the side closing edge of window frame profiles of in-/outward opening windows, by obliquely arranged drives with rear suspension with bore Ø8 mm Required space on the frame 40 mm	Material/Finish steel galvanized Feature/Equipment H=250 mm, t=5 mm		
	N E	Optional accessories			
		B16ST Eyebolt (Ø8 x 40 mm ST)	PartNo. 100044		
		B16VA Eyebolt (Ø8 x 40 mm VA)	PartNo. 100144		



FRAME BRACKETS

K97L	M8	Application Surface mounting on the side closing edge of window frame profiles of inward opening side hung windows, by obliquely arranged drives with rear suspension with bore Ø8 mm. Required space on the frame 20 mm Optional accessories B16ST Eyebolt (Ø8 x 40 mm ST)	PartNo. 160938 Material/Finish stainless steel, vibratory grinding Feature/Equipment left hand PartNo. 100044		
	15.00	B16VA Eyebolt (Ø8 x 40 mm VA)	PartNo. 100144		
K97R		Application Surface mounting on the side closing edge of window frame profiles of inward opening side hung windows, by obliquely arranged drives with rear suspension with bore Ø8 mm. Required space on the frame 20 mm	PartNo. 160939 Material/Finish stainless steel, vibratory grinding Feature/Equipment right hand		
		Accessories			
		B16ST Eyebolt (Ø 8 x 40 mm ST)	PartNo. 100044		
4		B16VA Eyebolt (Ø8 x 40 mm VA)	PartNo. 100144		

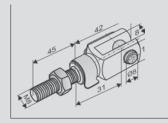
OPTIONAL ACCESSORIES





OPTIONAL ACCESSORIES

B27ST



Application

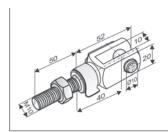
Clevis for rear or front suspension of spindle drives with M8 thread in the rear base cap or in the spindle tube

Part.-No. 105510

Material/Finish steel galvanized Feature/Equipment

Clevis M8 x 40 mm with spring bolt Ø8 mm and thread M8 x 45 mm 1x nut M10 + Nordlocksafety-washer + O-ring, max. screw-in depth in the drive 25 mm

B28ST



Application

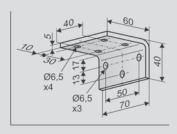
Clevis for rear or front suspension of spindle drives with M10 thread in the rear base cap or in the spindle tube

Part.-No. 105520

Material/Finish steel galvanized

Feature/Equipment
Clevis M10 x 40 mm with
spring bolt Ø10 mm and
thread M10 x 50 mm
1x nut M10 + Nordlocksafety-washer + O-ring,
max. screw-in depth in the
drive 25 mm

K21K



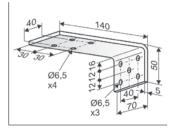
Application

Shift the fastening level of the frame brackets **K5**, **K29** from the horizontal to the vertical position of the **main closing edge** of window frame profiles

Part.-No. 159900

Material/Finish steel galvanized

K21L



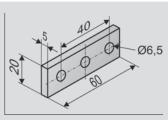
Application

Shift the fastening level of the frame brackets **K5**, **K29** from the horizontal to the vertical position of the **main closing edge** of window frame profiles

Part.-No. 159905

Material/Finish steel galvanized

B2



Application

Support for **F39** and **F40** as packing plate for mounting on the casement profiles of outward opening roof windows

Part.-No. 155173

Material/Finish aluminium Feature/Equipment

60 x 20 x 5 mm



SKY-LIG	HT ESSMANN TYP 810			
F12	Ø6,5 32 X2 Ø6 67 A0	Application Surface mounting on the main closing edge of the casement profiles of skylight domes Essmann 810 for drives with front suspension with bore Ø6 mm	PartNo. 151500 Material/Finish steel galvanized Feature/Equipment 1x screw M6, washer, nut Load max. 800 N	
К7	Ø12,5 x4 Ø8,5 x3 Ø7 x4	Application Surface mounting on the main closing edge of the upstand of skylight domes Essmann 810 for swivelling suspension of drives PLA with B4, SP with B13, LKS with B7 Accessories	PartNo. 157500 Material/Finish steel galvanized Feature/Equipment drilled holes Ø12,5 mm	
SKY-LIG	SHT ETERNIT	B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900	
F2	M6x35 DIN 931 Ø7,5 x2	Application Surface mounting on the main closing edge of skylight domes Eternit, for drives with front suspension with bore Ø6 mm	PartNo. 150303 Material/Finish aluminium Feature/Equipment 1x nut M6, 1x screw M6x35	
K4-L	Ø12,5 x4 Ø3,6 x2 15 81 140 Ø4,2 x2	Application Surface mounting on the main closing edge of the upstand of skylight domes Eternit for swivelling suspension of drives PLA with B4, SP with B11,	PartNo. 155610 Material/Finish steel galvanized Feature/Equipment 2x screw Taptite M4x10, 1x nut M4, 1x screw M4x65	
		Accessories B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900	



SCHÜCO	AWS 57RO, WICONA WICTEC 5	0, RAICO WING 105D – HSK		
F10.8S	78 60 W8 Ø6,5	Application Surface mounting on the main closing edge of casement profiles of outward opening windows, for drives with front or rear suspension with bore Ø8 mm	PartNo. 151105 Material/Finish aluminium Feature/Equipment 1x nut M8, 1x screw M8x35 Load max. 3000 N	
K82	92 97 97 97 97 97 97 97 97 97 97 97 97 97	Application Surface mounting on the main closing edge of window frame profiles or on the mullion/transom of outward opening (roof-)windows, for swivelling suspension of drives PLA with B4, SP8 with B13, LKS with B7	PartNo. 151320 Material/Finish stainless steel Feature/Equipment drilled holes Ø12,5 mm	
		Accessories		
		B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900	
SCHÜCO	AWS 57R – NSK			
F36	20° 00,5 max. 3 Nm 206,5 Ø11/7 x4	Application Surface mounting on the side closing edge of outward opening casement profiles of roof windows Schüco AWS 57RO, for drives with front suspension with bore Ø8 mm	PartNo. 155170 Material/Finish aluminium, stainless steel Feature/Equipment 1x bolt Ø8 mm, screw M4, washer A4,3	
K122-1	130 x6	Application Surface mounting on the side closing edge of window frame profiles of outward opening roof windows Schüco AWS 57RO, Wicona Wictec 50 for swivelling suspension of drives PLA with B4	PartNo. 155116 Material/Finish stainless steel Feature/Equipment without clamping ring B4	
	130	Accessories		
	30	B4 clamp ring PLA (Ø 36 mm, G1/8)	PartNo. 515900	



					J	
WICON	A MUCTEC FO. NOV					
WICONA	A WICTEC 50 – NSK					
F30	60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Application Surface mounting on the side closing edge of the outward opening casement profiles of roof windows Wicona Wictec 50, for drives with front suspension with bore Ø8 mm	PartNo. 155160 Material/Finish aluminium, stainless steel Feature/Equipment 1x bolt Ø8 mm, screw M4, washer A4,3			
K122-1	14 2	Application	PartNo. 155116			
07	160 130 x6 x6 x6	Surface mounting on the side closing edge of window frame profiles of outward opening roof windows Schüco AWS 57RO, Wicona Wictec 50 for swivel- ling suspension of drives PLA with B4	Material/Finish stainless steel Feature/Equipment without clamping ring B4			
	97	Accessories				
	30	B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900			
RAICO V	VING 105D – NSK					
F11ST	/ 12	Application	PartNo. 151400			
	08 F	Surface mounting on the side closing edge of casement/ window frame profiles of in-foutward opening windows or on skylights, for drives with front or rear suspension with bore Ø8 mm, mounting holes aligned with central axis of drive	Material/Finish steel galvanized Feature/Equipment 1x bolt Ø8 mm, washer, cotter pin Load max. 3000 N			
F11VA			PartNo. 151401			
			Material/Finish stainless steel			
K127	Ø6,5x8	Application	PartNo. 155119			
	200 60	Surface mounting on the side closing edge of window frame profiles of outward opening roof windows Raico Wing 105D for swivelling suspension of drives PLA with B4	Material/Finish stainless steel Feature/Equipment without clamping ring B4			
	34.5	Accessories				
	33	B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900			
				<u> </u>		



HEROAL	. 085D – HSK			
F29-1	70 96,5 911/7 x4 15 10 15 10 15 10 15 10 15 10 15 10 16 10 17 10 18	Application Surface mounting on the main closing edge of casement profiles of roof windows Heroal 085D for drives with front suspension with bore Ø8 mm	PartNo. 155158 Material/Finish aluminium (natural anodized), stainless steel Feature/Equipment 1x screw M8x35, nut M8	
К5	012.5 000 000 000 000 000 000 000 000 000 0	Application Surface mounting on the main closing edge of window frame profiles or on the mullion/transom of outward opening (roof-)windows, for swivelling suspension of drives PLA with B4, SP5 with B13, LKS with B7	PartNo. 155800 Material/Finish steel galvanized Feature/Equipment drilled holes Ø12,5 mm	
		Accessories		
		B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900	
HEROAL	. 085D – NSK			
F29	70 Ø6,5 Ø11/7 x4 15 10 00 00 00 00 00 00 00 00 00 00 00 00	Application Surface mounting on the side closing edge of casement profiles of roof windows Heroal 085D for drives with front suspension with bore Ø8 mm	PartNo. 155156 Material/Finish aluminium (natural anodized), stainless steel Feature/Equipment 1x bolt Ø8 mm, screw M4, washer A4,3	
K122	06.5 130 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Application Surface mounting on the side closing edge of window frame profiles of outward opening roof windows Schüco RS 106D, Heroal 085D for swivelling suspension of drives PLA with B4	PartNo. 155115 Material/Finish stainless steel Feature/Equipment without clamping ring B4 (#515900)	
		Accessories		
	58	B4 clamp ring PLA (Ø36 mm, G1/8)	PartNo. 515900	



OPTIONAL ACCESSORIES

Application	PartNo. 524177
Configuration module for automatic configuration and surveillance of max. 4 opening drives / 2 locking drives version S12 / S3 in synchronised multi- drive systems	Protection rating IP30 rubber envelope Ambient temperature range 0 °C + 70 °C Dimensions
Rated voltage: 24V DC (19V 28V) Current consumption: <12 mA Drive type: \$12	45 x 17 x 6 mm Connecting wires 3 wires 0,5 mm² x 50 mm Feature/Equipment Printed circuit board with components and connection wires to be installed in connection box to be supplied on site.

Special model	PU/pcs.	PartNo.	
Casement brackets painted / powder coated in other RAL colours			
Lump sum for coating		516030	
	1 – 20	516032	
Specify at order stage:	21 – 50	516032	
	51 – 100	516032	
	from 101	516032	
Frame brackets painted / powder coated in other RAL colours			
Lump sum for coating		516030	
	1 – 20	516031	
Charify at avalay stages	21 – 50	516031	
Specify at order stage:	51 – 100	516031	
	from 101	516031	