

### SPECIAL FEATURES SP

- For natural ventilation, smoke and heat exhausting systems
- Robust corrosion-resistant design
- Aluminium housing anodized finish or optionally in RAL colors - with plastic end caps
- Easy installation due to lateral dovetail guidance
- Phosphated steel spindle, aluminium spindle tube anodised finish, damped end positions
- Available in 24 V DC and 230 V AC
- Limit switch to protect against overload

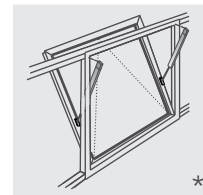
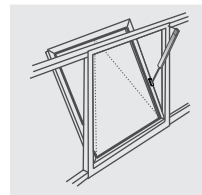
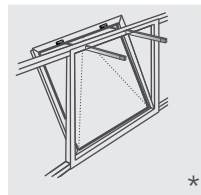
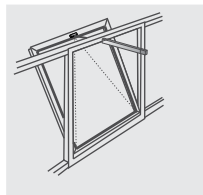
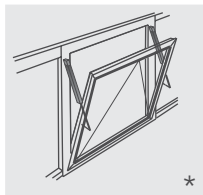
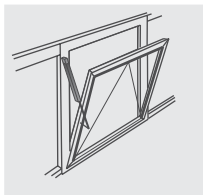
For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

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

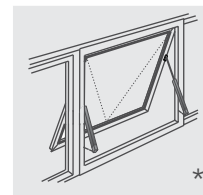
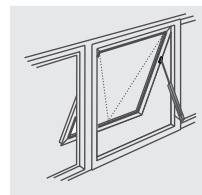
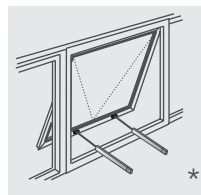
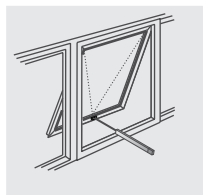
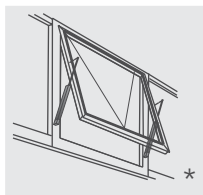
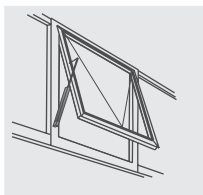
The EPD documents can be viewed or downloaded from our homepage [www.aumueller-gmbh.de](http://www.aumueller-gmbh.de).

## FACADE

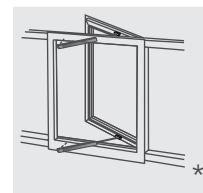
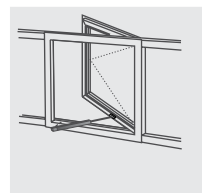
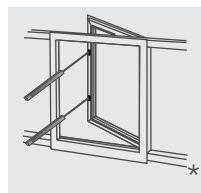
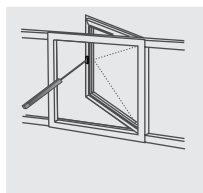
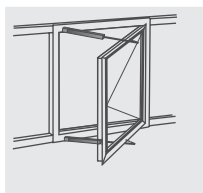
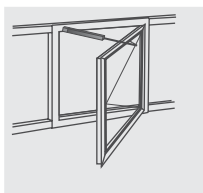
## Bottom-hung



## Top-hung

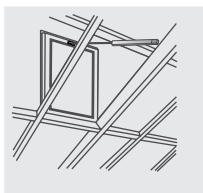


## Side-hung

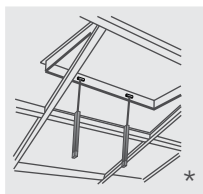
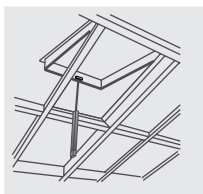


## ROOF

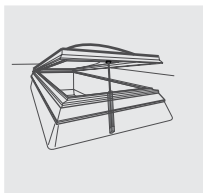
## Bottom-hung



## Top-hung



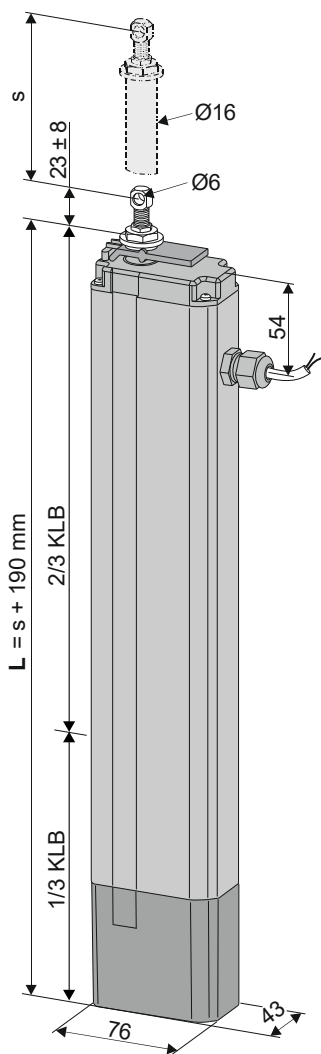
## Skylight



## Glass pyramid



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



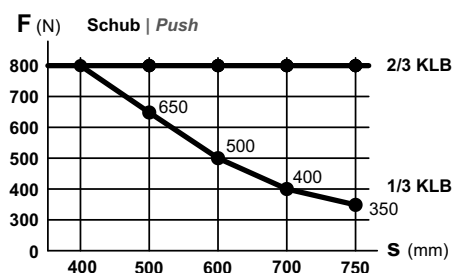
- Application: natural ventilation and RWA
- Cut-off via limit switch
- „Z“-Version: Potential free NC contact for closed end position feedback (max. 24V, 500 mA)
- Preferably application for skylight domes

### Options

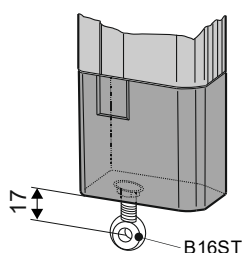
- Rear suspension (only to 500 mm stroke)
- Stroke reduction
- Protection rating IP65

### TECHNICAL 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	20 W
<b>DC</b>	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 54
	Ambient temperature range	-5 °C ... +60 °C
$F_Z$	Pulling force max.	800 N
$F_A$	Pushing force max.	



### OPTION

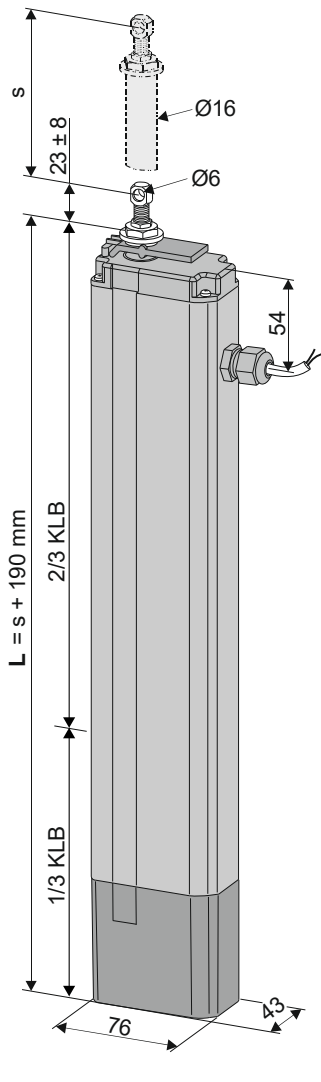


The rear suspension is fitted at the factory.  
Only up to 500 mm stroke possible!

$F_H$	Pullout force	3000 N (fastening depended)
	Spindle tube	aluminium
	Connecting cable	non-halogen, grey SP8: 2 x 0,75 mm <sup>2</sup> , ~ 1 m SP8-Z: 4 x 0,75 mm <sup>2</sup> , ~ 1 m
$v$	Speed	7,0 mm/s  7,0 mm/s
$S$	Stroke	100 – 750 mm
$L$	Length	s + 190 mm see order data
	Sound pressure level	≤ 70 dB (A)

ORDER DATA							
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.		
100	290	SP8 100 S2 24V	E6/C-0	1	514110		
		SP8-Z 100 S2 24V		1	514310		
200	390	SP8 200 S2 24V	E6/C-0	1	514120		
		SP8-Z 200 S2 24V		1	514320		
300	490	SP8 300 S2 24V	E6/C-0	1	514130		
		SP8-Z 300 S2 24V		1	514330		
400	590	SP8 400 S2 24V	E6/C-0	1	514140		
		SP8-Z 400 S2 24V		1	514340		
500	690	SP8 500 S2 24V	E6/C-0	1	514150		
		SP8-Z 500 S2 24V		1	514350		
600	790	SP8 600 S2 24V	E6/C-0	1	514160		
		SP8-Z 600 S2 24V		1	514360		
750	940	SP8 750 S2 24V	E6/C-0	1	514175		
		SP8-Z 750 S2 24V		1	514375		

OPTIONS							
Special model				PU/pcs.	Part.-No.		
<b>Rear Suspension</b>							
Cape for rear suspension (only to 500 mm stroke) incl. eyebolt B16ST M8 x 40 mm, bore Ø8 mm				1	512002		
<b>Protection rating IP65</b>							
Drive with additional gaskets for IP65					512005		
<b>Mechanical stroke reduction</b>							
Stroke reduction without construction length - mechanically					516000		
<b>Drive housing painted/powder coated in other RAL colours</b>							
<b>Lump sum for coating</b>					516030		
Specify at order stage:				1 – 20	516004		
				21 – 50	516004		
				51 – 100	516004		
				from 101	516004		
<b>Extra length connecting cable:</b>							
3 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>					501023		
5 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>					501024		
10 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>					501026		
5 m – non-halogen, grey – 4 x 0,75 mm <sup>2</sup> („Z“-Version)					501044		
10 m – non-halogen, grey – 4 x 0,75 mm <sup>2</sup> („Z“-Version)					501046		



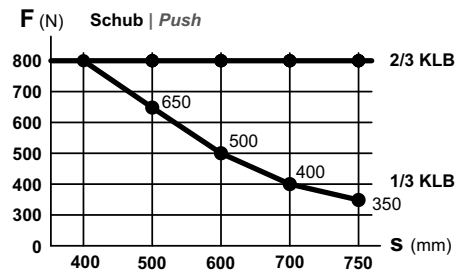
- Application: natural ventilation as single-drive
- Cut-off via limit switch
- Potential free NC contact for closed end position feedback (max. 24V, 500 mA)
- Parallel connection up to 8 drives in one group
- Preferably application for skylight domes
- Minimum basic length of housing for stroke  $s = 300$  mm

### Options

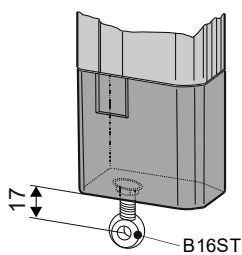
- Stroke reduction (for  $s < 300$  mm)
- Rear suspension (only to 500 mm stroke)
- Protection rating IP65

### TECHNICAL DATA

$U_N$	Rated voltage	230V AC (50 Hz)
$I_N$	Rated current	0,12 A
$I_A$	Cut-off current	0,2 A
$P_N$	Rated power	5 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 54
	Ambient temperature range	-5 °C ... +60 °C
$F_Z$	Pulling force max.	800 N
$F_A$	Pushing force max.	



### OPTION



The rear suspension is fitted at the factory.  
Only up to 500 mm stroke possible!

$F_H$	Pullout force	3000 N (fastening depended)
	Spindle tube	aluminium
	Connecting cable	non-halogen, grey – 6 x 0,75 mm <sup>2</sup> , ~ 1 m
$v$	Speed	7,0 mm/s
$s$	Stroke	300 – 750 mm
$L$	Length	$s + 190$ mm see order data
	Minimum length of housing	490 mm ( $s \geq 300$ mm)
	Sound pressure level	$\leq 70$ dB (A)

**ORDER DATA**

s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.			
300	490	SP8-Z 300 S2 230V	E6/C-0	1	<b>496231</b>			
400	590	SP8-Z 400 S2 230V	E6/C-0	1	<b>496241</b>			
500	690	SP8-Z 500 S2 230V	E6/C-0	1	<b>496251</b>			
600	790	SP8-Z 600 S2 230V	E6/C-0	1	<b>496261</b>			
750	940	SP8-Z 750 S2 230V	E6/C-0	1	<b>496276</b>			

**OPTIONS**

Special model	PU/pcs.	Part.-No.			
<b>Rear Suspension</b>					
Cape for rear suspension (only to 500 mm stroke) incl. eyebolt B16ST M8 x 40 mm, bore Ø8 mm	1	<b>512002</b>			
<b>Protection rating IP65</b>					
Drive with additional gaskets for IP65		<b>512005</b>			
<b>Mechanical stroke reduction</b>					
Stroke reduction without construction length - mechanically		<b>516000</b>			
<b>Drive housing painted/powder coated in other RAL colours</b>					
<b>Lump sum for coating</b>		<b>516030</b>			
Specify at order stage:	1 – 20	<b>516004</b>			
	21 – 50	<b>516004</b>			
	51 – 100	<b>516004</b>			
	from 101	<b>516004</b>			
<b>Extra length connecting cable:</b>					
3 m – non-halogen, grey – 6 x 0,75 mm <sup>2</sup>		<b>501163</b>			
5 m – non-halogen, grey – 6 x 0,75 mm <sup>2</sup>		<b>501167</b>			
10 m – non-halogen, grey – 6 x 0,75 mm <sup>2</sup>		<b>501169</b>			

### OVERVIEW OF BRACKETS

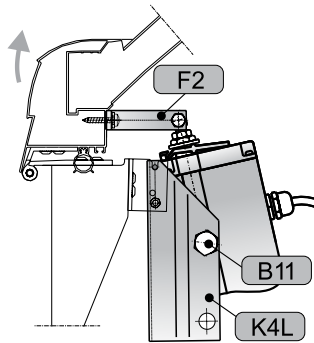
Typical applications				1	2	3	4	5	6	7	
Frame bracket				K4L	K7	K57, K57.2, K57.3	K59	K57, K57.2, K57.3, K59	K92	K82	
Mounting aid								K9			
Bracket accessories				B11	B13	B10 inkl.				B13	
Casement bracket				F2	F12	F1, F1V, F1.1, F10.6					
Special application				Sky light Eternit	Sky light Essmann				Sky light Lamilux		
Space requirement		min.	[mm]	140	120	40	35	50	60	45	
Window material		Alu				●	●	●	●	●	
		Wood				●	●	●	●	●	
		PVC		●	●	●	●	●	●	●	
Type of window and mounting	Bottom hung	inward	HSK	FM					■		■
				RM							
			NSK	FM							
				RM							
		outward	HSK	RM					●		●
				PR			●	●		●	
			NSK	RM							
				PR							
	Top hung	inward	HSK	FM					■		■
				RM							
			NSK	FM							
				RM							
		outward	HSK	RM					●		●
				PR			●	●		●	
			NSK	RM							
				PR							
	Side hung	inward	HSK	FM					■		■
				RM							
			NSK	FM							
				RM							
	Roof	outward	HSK	RM					●		●
				PR			●	●		●	
			NSK	RM							
				PR			●	●		●	
	Sky-light	outward	HSK	RM	●	●	●	●		●	●
			NSK	RM							
FAB(*1		Solo	[mm]	1200	1200	450 – 1300					
FAH(*1		Solo	[mm]	1200	1200	450 – 1500					

#### LEGEND

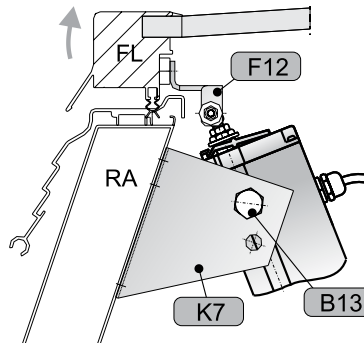
● suitable    ■ not recommended

(\*1) Sample value of the casement dimensions. The actual 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.

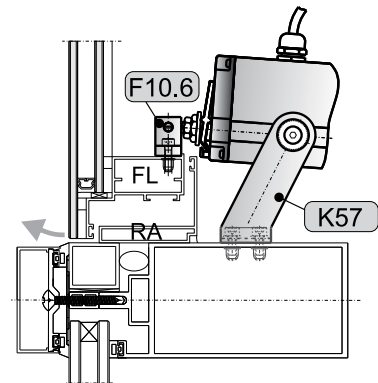
## TYPICAL APPLICATIONS

**1** RM, HSK, sky light

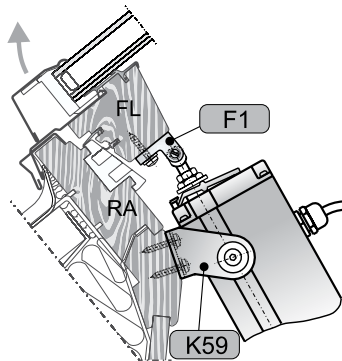
View on sky light Eternit

**2** LRM, HSK, sky light

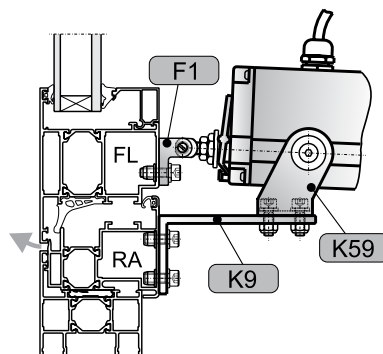
View on sky light Essmann

**3** RM, HSK, top hung outward opening

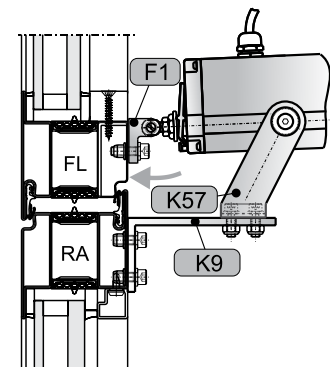
View on aluminium window

**4** RM, HSK, roof

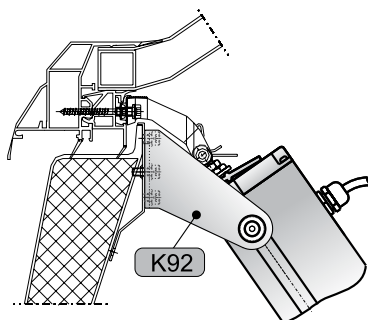
View on wooden window

**5** RM, HSK, top hung outward opening

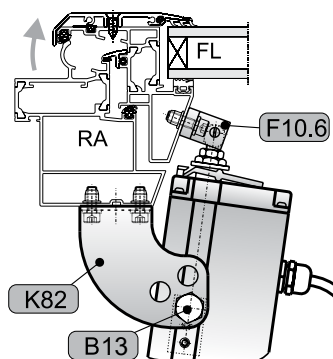
View on aluminium window

**5** RM, HSK, top hung outward opening

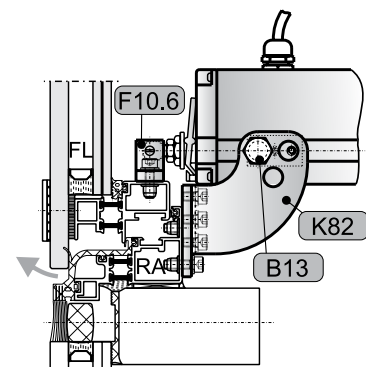
View on steel window

**6** RM, HSK, sky light

View on sky light Lamilux

**7** RM, HSK, roof

View on aluminium window

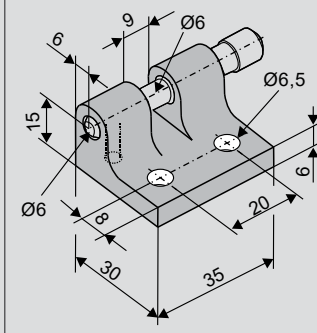
**7** RM, HSK, top hung outward opening

View on aluminium window



### CASEMENT BRACKETS

F1



#### 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 the drive is possible

Part.-No. 150102

#### Material/Finish

aluminium, diecast

#### Feature/Equipment

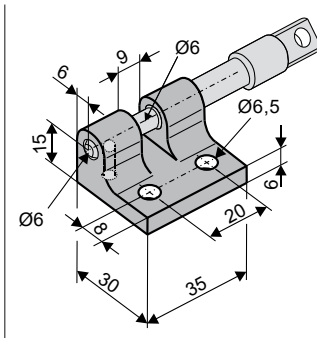
1x locking bolt

Ø6 mm

#### Load

max. 1000 N

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 the drive is possible

Part.-No. 150110

#### Material/Finish

aluminium, diecast

#### Feature/Equipment

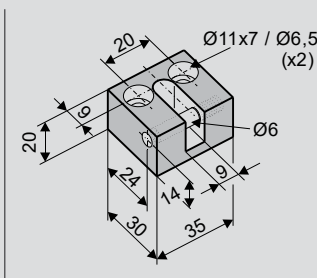
1x locking spring bolt

Ø6 mm

#### Load

max. 600 N

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

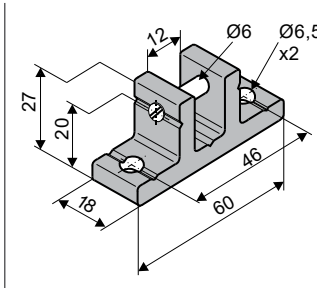
#### Feature/Equipment

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

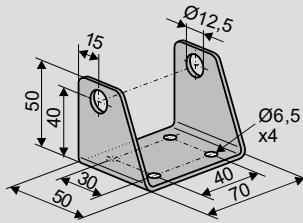
1x stud bolt Ø6 mm

#### Load

max. 1600 N

## FRAME BRACKETS

K5

**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

Part.-No. 155800

**Material/Finish**

steel galvanized

**Feature/Equipment**  
drilled holes Ø12,5 mm

**Accessories**

B13 clamp block SP  
(12 mm, G1/8)

Part.-No. 513901

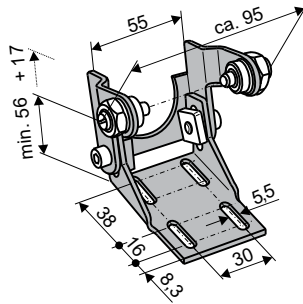
K21K Frame bracket

Part.-No. 159900

K21L Frame bracket

Part.-No. 159905

K17

**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

Part.-No. 159200

**Material/Finish**

steel galvanized

**Feature/Equipment**  
adjustable height

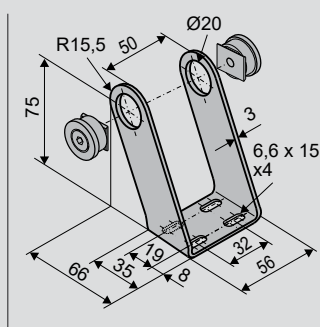
**Accessories**

B12 clamp block SP  
(7,0 mm thick, Ø8 mm)

Part.-No. 513903

### FRAME BRACKETS

K57



#### Application

Surface mounting on the **main closing edge** of the window frame of outward opening roof windows or skylight domes for **swivelling suspension** of drives **SP**, Space in between clamp axis and fixing level **75 mm**

Part.-No. 160930

#### Material/Finish

steel galvanized

#### Feature/Equipment

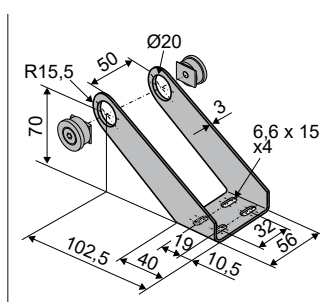
2x B10 clamping bolts

#### Accessories

K9 Frame bracket

Part.-No. 158501

K57.2



#### Application

Surface mounting on the **main closing edge** of the window frame of outward opening roof windows or skylight domes for **swivelling suspension** of drives **SP**, Space in between clamp axis and fixing plane **70 mm**

Part.-No. 160931

#### Material/Finish

steel galvanized

#### Feature/Equipment

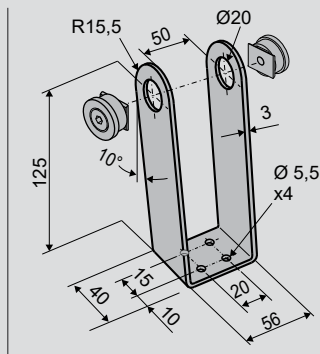
2x B10 clamping bolts

#### Accessories

K9 Frame bracket

Part.-No. 158501

K57.3



#### Application

Surface mounting on the **main closing edge** of the window frame of outward opening roof windows or skylight domes for **swivelling suspension** of drives **SP**, Space in between clamp axis and fixing plane **125 mm**

Part.-No. 160935

#### Material/Finish

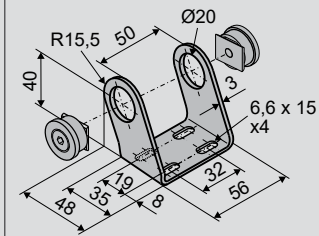
steel galvanized

#### Feature/Equipment

2x B10 clamping bolts

## FRAME BRACKETS

K59

**Application**

Surface mounting on the **main closing edge** of the window frame of outward opening roof windows or skylight domes for **swivelling suspension** of drives **SP**, Space in between clamp axis and fixing plane **40 mm**

Part.-No. 160934

**Material/Finish**

steel, powdercoated (RAL 9006-silver)

**Feature/Equipment**

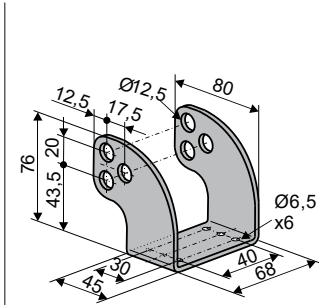
2x B10 clamping bolts

**Accessories**

K9 Frame bracket

Part.-No. 158501

K82

**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**,  
**SP** with **B13**,  
**LKS** with **B7**

Part.-No. 151320

**Material/Finish**

stainless steel

**Feature/Equipment**

drilled holes Ø12,5 mm

**Accessories**

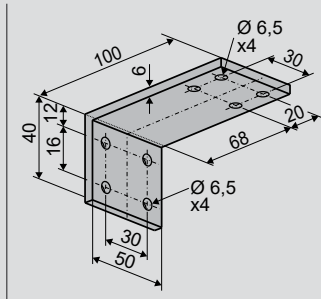
**B13** clamp block SP  
(12 mm, G1/8) thick

Part.-No. 513901

### OPTIONAL ACCESSORIES

#### Window console

**K9**



#### Application

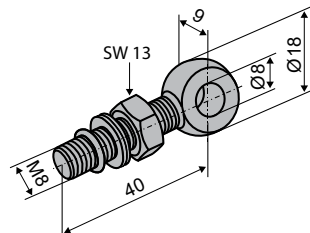
Shift the fastening level of the frame brackets **K57**, **K57.2** and **K59** from the horizontal to the vertical side of the **main closing edge** of window frames

**Part.-No. 158501**

**Material/Finish**  
aluminium

#### Eyebolt

**B16ST**



#### Application

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

**Part.-No. 100044**

**Material/Finish**  
steel galvanized  
**Feature/Equipment**  
M8x40 (Eye Ø8 mm),  
1x nut M8,  
1x Nordlock-safety-washer,  
1x O-ring  
max. screw-in depth in the drive 25 mm

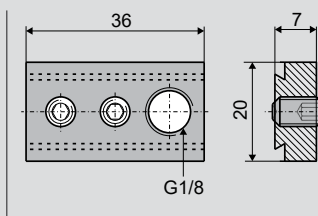
**B16VA**

**Part.-No. 100144**

**Material/Finish**  
stainless steel (V2A)

#### Clamp blocks

**B11**



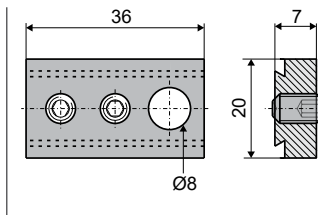
#### Application

**Swivelling suspension** of drives **SP8** on frame brackets **K4-L** with collar screw **B8**

**Part.-No. 513902**

**Material/Finish**  
aluminium  
**Feature/Equipment**  
7,0 mm thick,  
thread G1/8",  
incl. 2 collar screws  
B8, Ø12 mm

**B12**



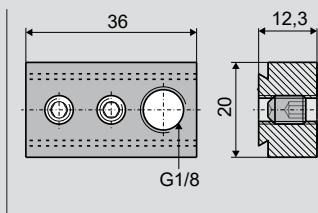
#### Application

**Swivelling suspension** of drives **SP8** on frame brackets **K17**

**Part.-No. 513903**

**Material/Finish**  
aluminium  
**Feature/Equipment**  
7,0 mm thick,  
bore Ø8,2 mm  
2 pieces

**B13**



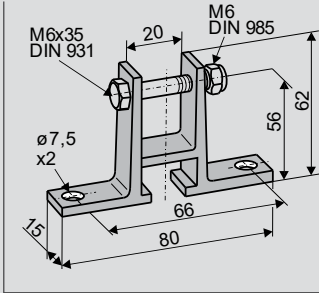
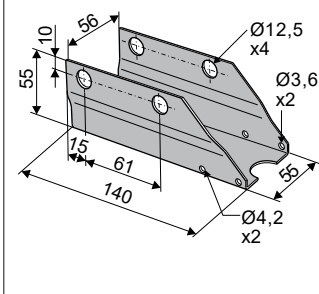
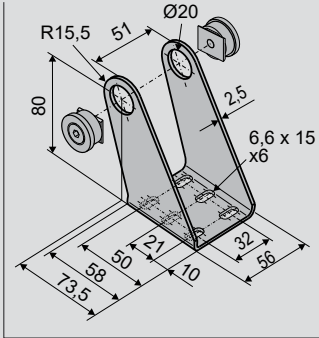
#### Application

**Swivelling suspension** of drives **SP8** on frame brackets **K5**, **K7**, **K82** with collar screw **B8**

**Part.-No. 513901**

**Material/Finish**  
aluminium  
**Feature/Equipment**  
12,3 mm thick,  
thread G1/8",  
incl. 2 collar screws  
B8, Ø12 mm

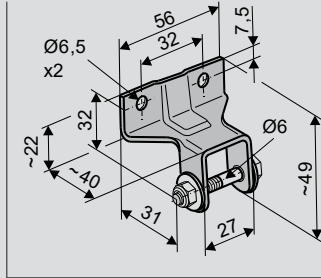
## SPECIFIC APPLICATIONS

SKY-LIGHT ETERNIT			
F2		<b>Application</b> Surface mounting on the main closing edge of skylight domes Eternit, for drives with front suspension with bore Ø6 mm	<b>Part.-No.</b> 150303 <b>Material/Finish</b> aluminium <b>Feature/Equipment</b> 1x nut M6, 1x screw M6x35 <b>Load</b> max. 800 N
K4-L		<b>Application</b> Surface mounting on the main closing edge of the upstand of skylight domes Eternit for swivelling suspension of drives <b>PLA with B4, SP with B11,</b>	<b>Part.-No.</b> 155610 <b>Material/Finish</b> steel galvanized <b>Feature/Equipment</b> 2x nut Taptite M4x10, 1x nut M4, 1x nut M4x65
<b>Accessories</b> <b>B11 clamp block SP (7 mm, G1/8)</b>			
		<b>Part.-No.</b> 513902	
SKY-LIGHT LAMILUX			
K92		<b>Application</b> Surface mounting on the main closing edge of the upstand of skylight domes Lamilux for swivelling suspension of drives SP. For the front suspension the original casment bracket of Lamilux is used	<b>Part.-No.</b> 160937 <b>Material/Finish</b> steel, powder coated (RAL 9010 white) <b>Feature/Equipment</b> 2x B10 clamping bolts

### SPECIFIC APPLICATIONS

#### SKY-LIGHT ESSMANN TYP 810

F12



#### 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

Part.-No. 151500

**Material/Finish**  
steel galvanized

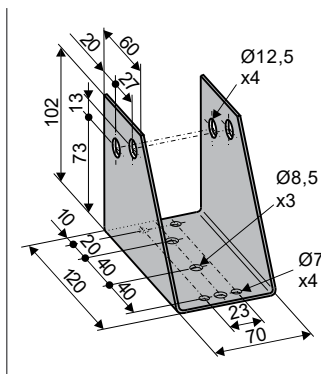
**Feature/Equipment**

1x screw M6,  
washer,  
nut

**Load**

max. 800 N

K7



#### 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

Part.-No. 157500

**Material/Finish**  
steel galvanized

**Feature/Equipment**  
drilled holes Ø12,5 mm

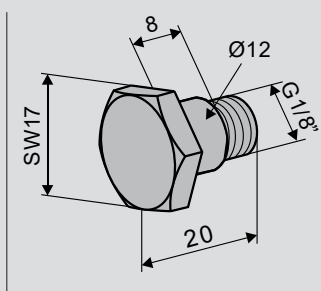
#### Accessories

B13 clamp block SP  
(12 mm, G1/8)

Part.-No. 513901

### OPTIONAL ACCESSORIES

B8



#### Application

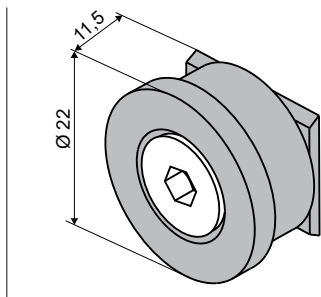
Swivelling suspension of the clamp rings  
B4 for PLA  
B7 for LKS  
or of the clamping blocks  
B11, B13 for SP  
for U-shaped frame brackets  
with bore Ø12,5 mm

Part.-No. 172800

**Material/Finish**  
stainless steel

**Feature/Equipment**  
collar Ø12 mm, G1/8"

B10



#### Application

Swivelling suspension of drives  
SP8 on frame brackets K57,  
K57.2, K57.3, K59, K92

Part.-No. 155010

**Material/Finish**  
cast steel, nickel plated

**Feature/Equipment**  
2 pieces (for drilled holes  
Ø20 mm)

## CASEMENT BRACKETS AND FRAME BRACKETS

Special accessories					
Special model	PU/pcs.	Part.-No.			
Casement brackets painted / powder coated in other RAL colours					
Lump sum for coating		516030			
Specify at order stage:	1 – 20	516032			
	21 – 50	516032			
	51 – 100	516032			
	from 101	516032			
Frame brackets painted / powder coated in other RAL colours					
Lump sum for coating		516030			
Specify at order stage:	1 – 20	516031			
	21 – 50	516031			
	51 – 100	516031			
	from 101	516031			