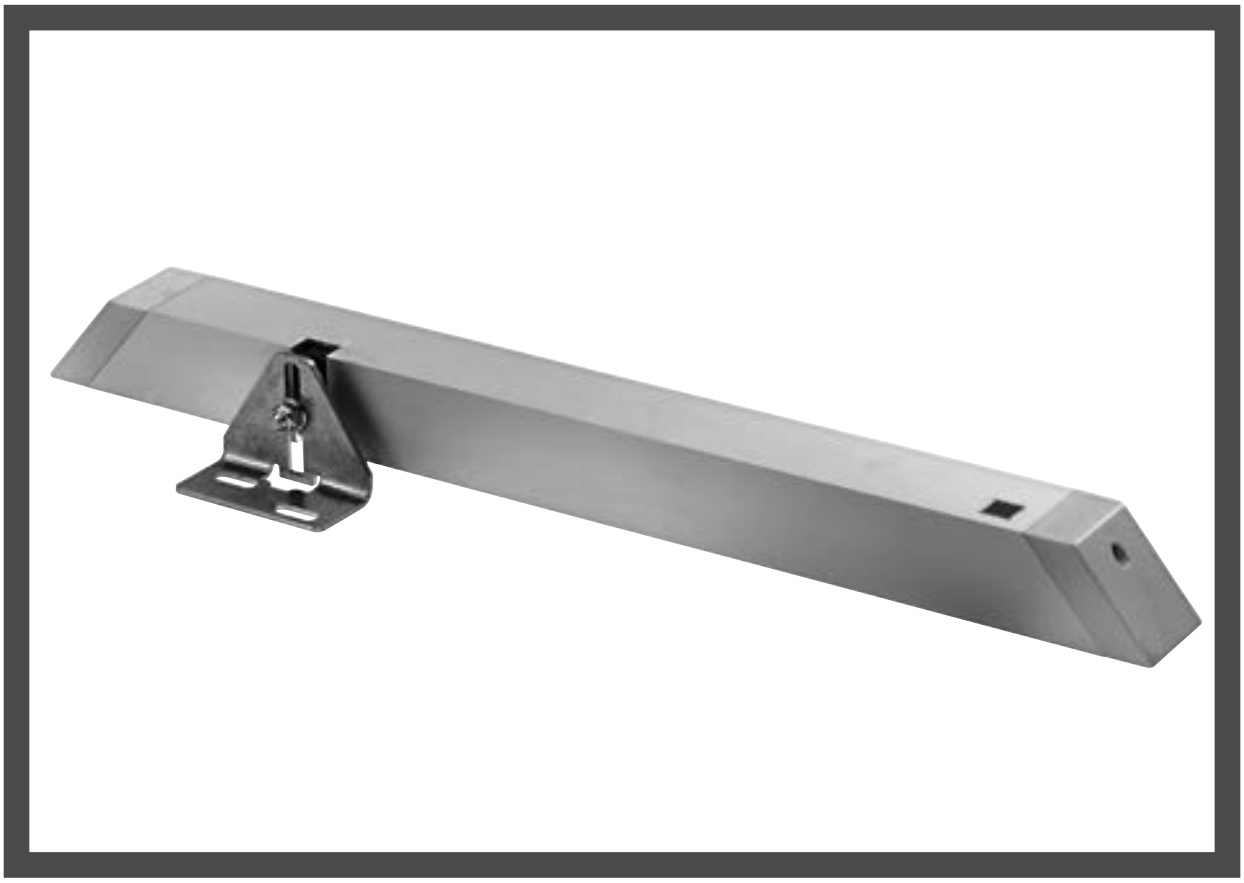


SPECIAL FEATURES FV1 / FV3 / FV4

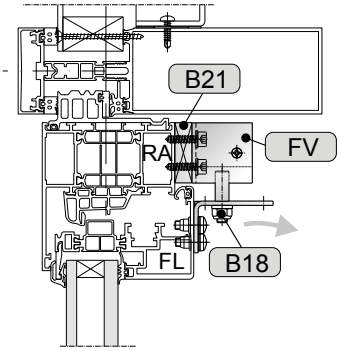
- For natural ventilation, smoke and heat exhausting and ferralux® NRWG (EN12101-2)
- Versions:
  - FV1 – without internal cut-off switch and sequence control, for use in RWA hardware systems with USKM module
  - FV3 – with internal load dependent cut-off switch and sequence control for drives PL6 S1 / PL10 S1
  - FV4 – Version SW-V2 (software) with M-COM suitable internal load dependent cut-off switch and sequence control for drives S3 /S12 (star wiring, drive current does not run over FV4, sequence control via communication wire)
- Number of locking points (VP)
  - 1 VP – Housing 420 mm as right or left handed version
  - 2 VP – Housing 1200 mm or 2000 mm
  - 3 VP – Housing 2000 mm
- Small locking bracket for 18 mm mounting space on window frame profile
- Robust corrosion-resistant design in a slim aluminium housing (Lx35x35 mm) or optionally in RAL colors
- Easy installation due to concealed holes below the oblique end caps
- Cable connection terminals below the end cap (in FV3 and FV4)

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**.

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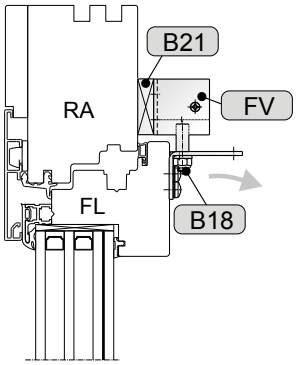
TYPICAL APPLICATIONS

1 RM, inward opening window



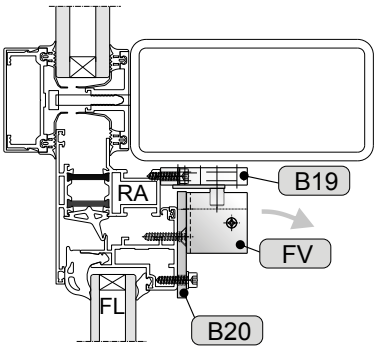
View on aluminium window

2 RM, inward opening window



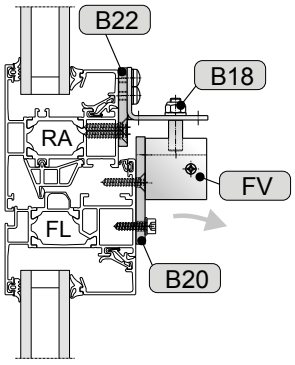
View on wooden window

3 FM, inward opening window



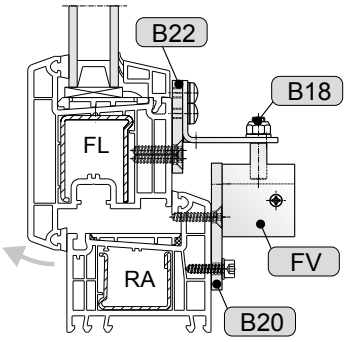
View on aluminium window

4 FM, inward opening window



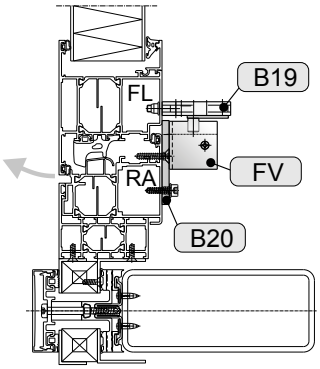
View on aluminium window

5 RM, outward opening window



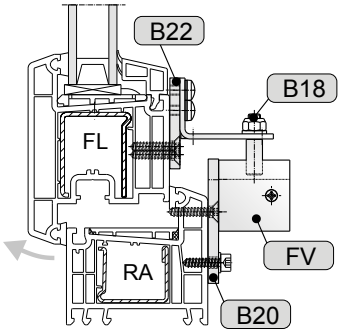
View on PVC-window

6 RM, outward opening window



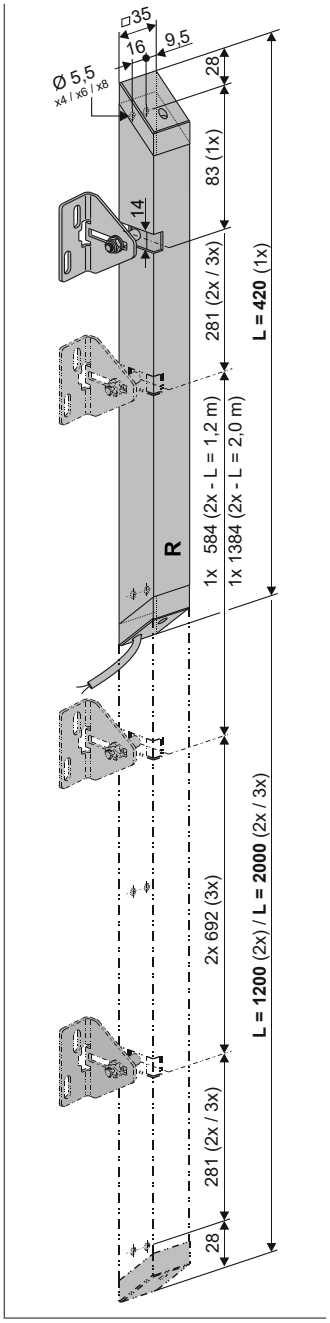
View on aluminium window

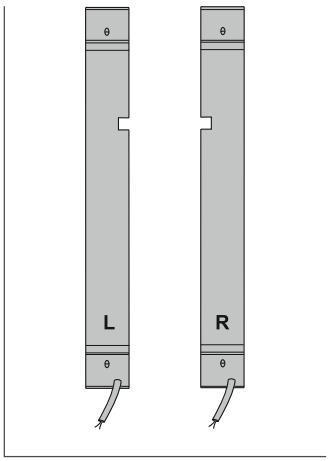
7 RM, outward opening window



View on aluminium window

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- Application: natural ventilation, RWA, ferralux®-NRWG
- Surface mounting on the window frame/casement profiles of the main/side closing edge (HSK/NSK) of in-/outward opening windows. Locking bracket mounted on the casement
- Required mounting space 35 mm
- Can be installed without locking bar

Options

- Mounting plate for installation on the window frame profile (RM) of outward opening windows or on the casement profile (FM) of inward opening windows
- Slim locking bracket 18 mm for small mounting space on the window frame profiles

FV1

- Without internal cut-off switch and sequence control, for use in RWA hardware systems with USKM module

FV3

- With internal load dependent cut-off switch and sequence control for drives PL6 S1 / PL10 S1 (I = 0.8A)

FV4

- M-COM suitable internal load dependent cut-off switch and sequence control for drives S3 /S12
- Star wiring
- Current of the drives does not run over FV4
- Sequence control via communication wire

TECHNICAL DATA

U_N	Rated voltage	24V DC (19 V ... 28 V)
I_N	Rated current	0,6 A
I_0	Quiescent current	~ 300 mA
P_N	Rated power	20 W
I_D	Current of connected drives	FV1: USKM FV3: 0,8 A (PL 6/10 S1) FV4: S3 / S12 non relevant
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 32
	Ambient temperature range	-5 °C ... + 60 °C
F	Pushing / Pulling force max.	~ 600 N
t	Runtime	~ 5,0 s
	Connecting cable	FV1: non-halogen, grey 2 x 0,75 mm², ~ 3 m FV3: non-halogen, grey 2 x 0,75 mm², ~ 3 m FV4: non-halogen, grey 3 x 0,50 mm², ~ 3 m
	Housing	aluminium 35 x 35 mm
L	Length	see order data
	Versions	FV1: 1x R/L, 2x R, 3x R FV3: 1x R/L, 2x R, 3x R FV4: 1x R/L, 2x R, 3x R
	Version name	1x = 1 locking point 2x = 2 locking point 3x = 3 locking point R = right hand version L = left hand version
	Sound pressure level	≤ 70 dB (A)

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ORDER DATA

Type	L [mm]	Version	Finish	PU/pcs.	Part.-No.
Single right hand	420	FV1 R (1x)	E6/C-0	1	**515103**
		FV3 R (1x)		1	**515102**
		FV4 R (1x)		1	**515129**
Single left hand	420	FV1 L (1x)	E6/C-0	1	**515106**
		FV3 L (1x)		1	**515105**
		FV4 L (1x)		1	**515130**
Double right hand	1200	FV1 R (2x)	E6/C-0	1	**515111**
		FV3 R (2x)		1	**515110**
		FV4 R (2x)		1	**515131**
Double right hand	2000	FV1 R (2x)	E6/C-0	1	**515113**
		FV3 R (2x)		1	**515112**
		FV4 R (2x)		1	**515132**
Triple right hand	2000	FV1 R (3x)	E6/C-0	1	**515116**
		FV3 R (3x)		1	**515114**
		FV4 R (3x)		1	**515136**

Special model	PU/pcs.	Part.-No.
Drive housing painted/powder coated in other RAL colours		
Lump sum for coating		**516030**
Specify at order stage:	1 – 20	**516004**
	21 – 50	**516004**
	51 – 100	**516004**
	from 101	**516004**
Extra length connecting cable:		
5 m –non-halogen grey – 2 x 0,75 mm²		**501021**
10 m –non-halogen, grey – 2 x 0,75 mm²		**501027**
5 m –non-halogen, grey – 3 x 0,50 mm²		**501034**
10 m –non-halogen, grey – 3 x 0,50 mm²		**501036**
Microprocessor programming S12		
Programming drives 24V / 230V S12		**524180**

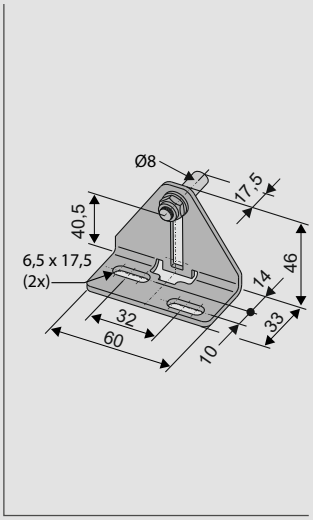
Optional accessories	PU/pcs.	Part.-No.
M-COM Configuration module for synchronised multi-drive systems (for FV4)	1	**524177**

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ACCESSORIES

Locking angle

B18



Application

Surface mounting on the **main/side closing edge** of window frame profiles/casement profiles of **in-/outward opening** windows.
Adjustable locking bolt for compensation of the profile overlap **FÜ<10 mm**.
Required mounting space **35 mm**

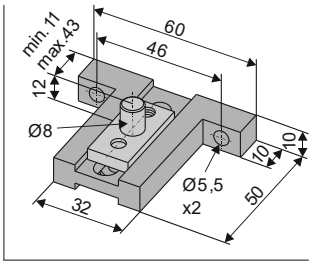
Part.-No. 301595

Material/Finish
stainless steel (1.4301)
Feature/Equipment
1x locking pin Ø 8x30,
1x nut M6,
1x washer A6,4

Accessories

B21-1 base plate for FÜ>10 mm FV L = 420	**Part.-No. 515181**
B21-2 base plate for for FÜ>10 mm FV L = 1200	**Part.-No. 515183**
B21-3 base plate for for FÜ>10 mm FV L = 2000	**Part.-No. 515185**
B22 base plate for glazing bead	**Part.-No. 301599**

B19



Application

Surface mounting on the **main/side closing edge** of window frame profiles/casement profiles of **in-/outward opening** windows.
Adjustable locking bolt for compensation of the profile overlap **FÜ<10 mm**.
Required mounting space **15 mm**

Part.-No. 301597

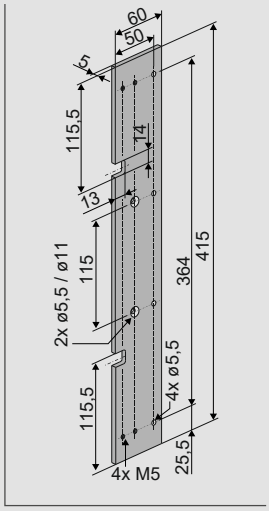
Material/Finish
aluminium
Feature/Equipment
1x locking pin Ø 8x10,
1x hex head screw M6x10,
1x washer A6,4

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ACCESSORIES

Mounting plate

B20-1



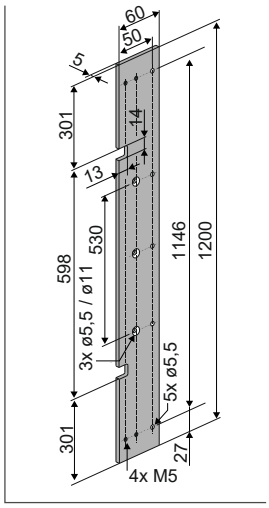
Application

Mounting of FV1/FV3/FV4
L = 420 mm as right or left hand version on the window frame profiles of outward opening windows or on the casement profile of inward openingcasements, e.g. **RWA1100** hardware systems

Part.-No. 515191

Material/Finish
aluminium
Feature/Equipment
415 x 60 x 5 mm

B20-2



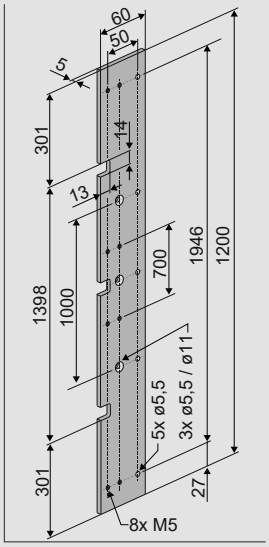
Application

Mounting of FV1/FV3/FV4
L = 1200 mm on the window frame profiles of outward opening windows or on the casement profiles of inward opening casements, e.g. **RWA1100** hardware system

Part.-No. 515193

Material/Finish
aluminium
Feature/Equipment
1200 x 60 x 5 mm

B20-3



Application

Mounting of FV1/FV3/FV4
L = 2000 mm on the window frame profiles of outward opening windows or on the casement profiles of inward opening casements, e.g. **RWA1100** hardware system

Part.-No. 515197

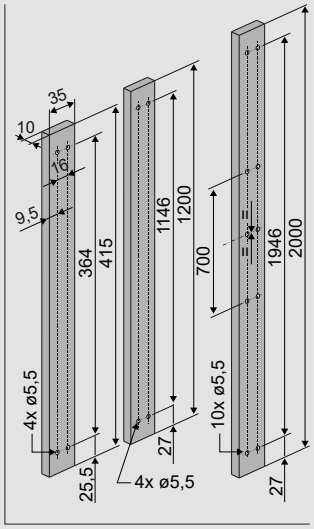
Material/Finish
aluminium
Feature/Equipment
2000 x 360 x 5 mm

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OPTIONAL ACCESSORIES

Base plate

B21



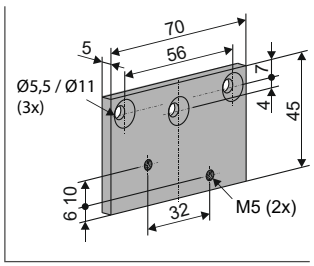
B21-1 FV L = 420	**Part.-No. 515181**
B21-2 FV L = 1200	**Part.-No. 515183**
B21-3 FV L = 2000	**Part.-No. 515185**

Application

Compensation of the **profile overlapp FÜ>10 mm** for FV1/FV3/FV4 mounted on the window frame profiles (RM) of **inward opening** windows
1x for FÜ > 10 mm
2x fpr FÜ > 20 mm

Material/Finish
aluminium
Feature/Equipment
L x 35 x 10 mm
(L = 415, 1200, 2000) mm

B22



Application

Adapter plate for relocation of the mounting holes of the locking bracket **B18** outside the glasing bead of **outward opening** windows

Part.-No. 301599

Material/Finish
aluminium (E6/C-0)
Feature/Equipment
for locking angle B18

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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**			

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