



SPECIAL FEATURES FVUI

- For natural ventilation, smoke and heat exhausting and ferralux® NRWG (EN12101-2)
- With M-COM suitable internal load dependent cut-off switch and sequence control for drives (star wiring, drive current does not run over FVUx - sequence control via communication wire)
- Suitable for concealed mounting inside profiles
- Locking plate activates the multi-point locking systems of the windows via additional locking roller, it can be mounted on both sides and can be rotated with 180°
- Manual unlocking mechanism
- Robust corrosion-resistant design in a aluminium housing (415 x 26 x 26 mm)
- Concealed cable terminals and internal push button for setting the running direction

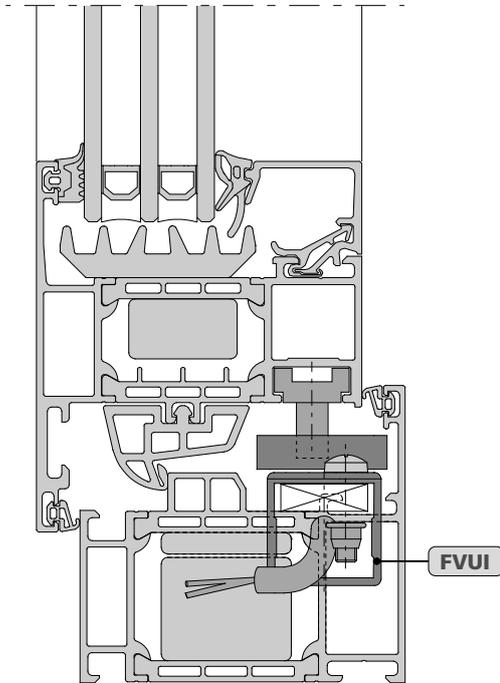
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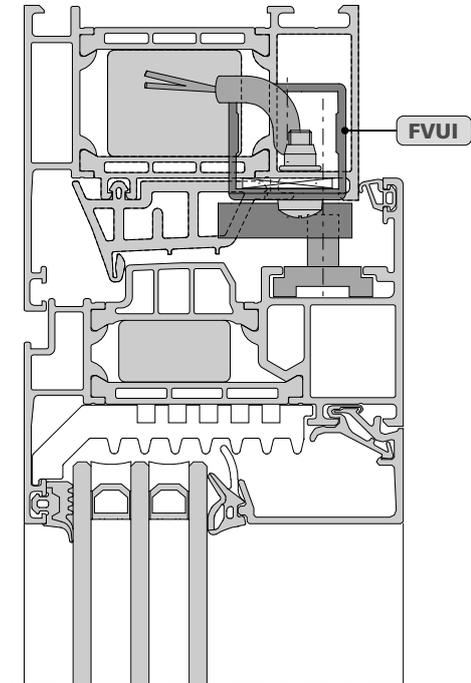
TYPICAL APPLICATIONS

1 Concealed mounting
outward opening



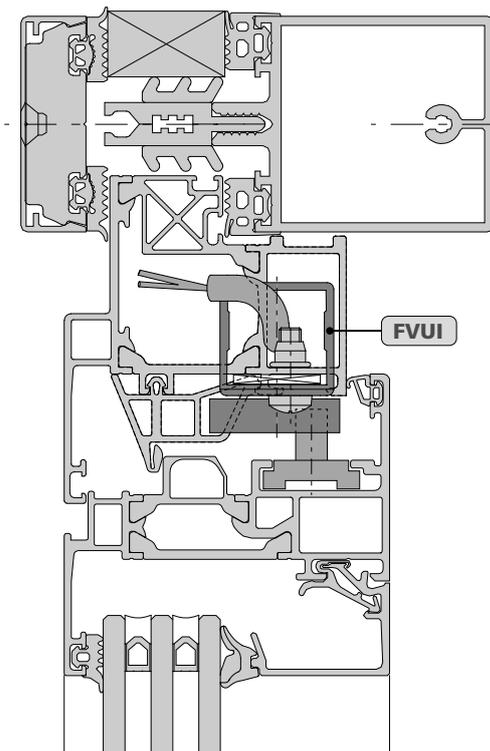
View on Alu window

2 Concealed mounting
inward opening



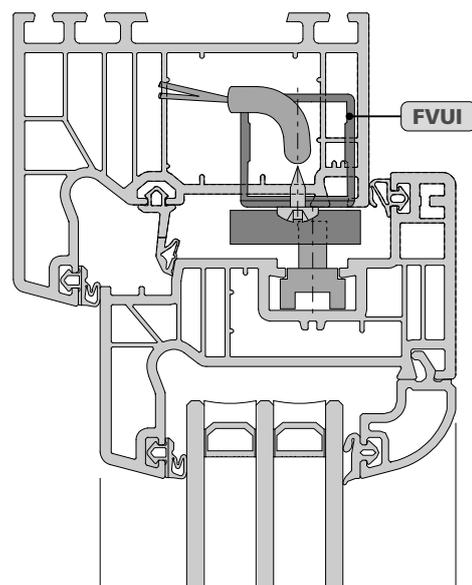
View on Alu window

3 Concealed mounting
inward opening



View on Alu window

4 Concealed mounting
inward opening



View on PVC window

- Application: natural ventilation, RWA, ferralux®-NRWG
- Surface or concealed mounting inside profiles
- Locking plate (8 mm) or optional locking plate (6 mm)
- Locking position selectable
- Manual unlocking mechanism
- Running direction adjustable

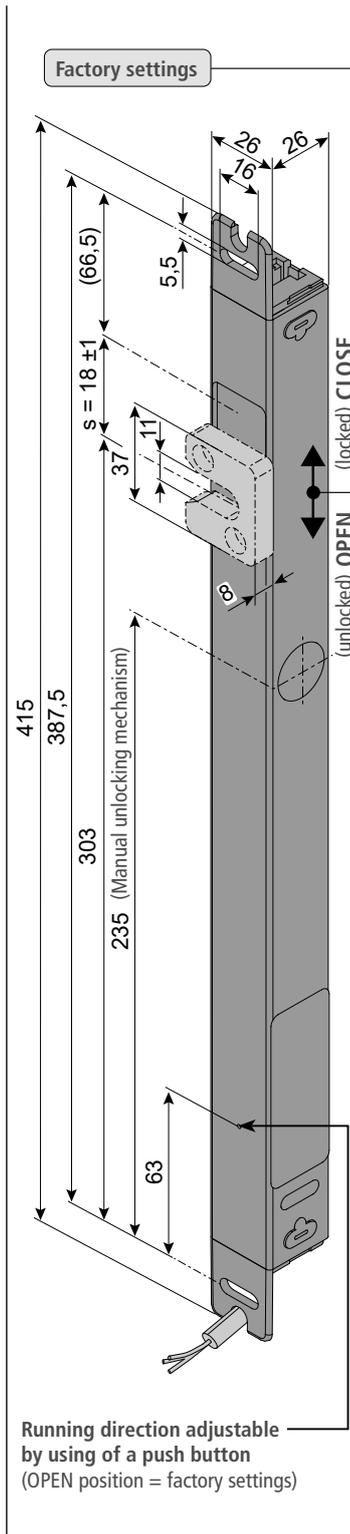
Options

- Special functions programmable

- M-COM suitable internal Control Electronics and sequence control for drives S3 / S12
- Star wiring
- Current of the drives does not run over FVUI
- Sequence control via communication wire

TECHNICAL DATA

U_N	Rated voltage	24 V DC (19 V ... 28 V)
I_N	Rated current	0,6 A
I_A	Cut-off current	~ 1,0 A
P_N	Rated power	15 W
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_A	Pushing force max.	~ 600 N
F_L	Breakout force max.	~ 1000 N
F_H	Pullout force max.	1.500 N
t	Running time	~ 5,0 s
s	Stroke	~ 18 mm (± 1)
	Connecting cable	non-halogen, grey $\varnothing 6,2$ mm, 3 x 0,5 mm ² , ~ 3 m
	Coupling adapter	die-cast zinc
	Housing	aluminium (E6/C-O)
L, (WxH)	Dimensions	L = 415 mm, 26 x 26 mm (B x H)
	Sound pressure level	≤ 70 dB (A)

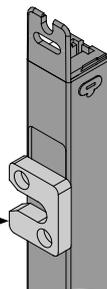


MOUNTING POSSIBILITIES OF THE LOCKING PLATE

Locking plate is included separately (optional installation possible)

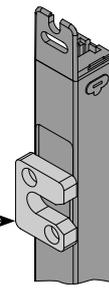
Mounting example "Version - 1"

Locking plate is included separately



Mounting example "Version - 2"

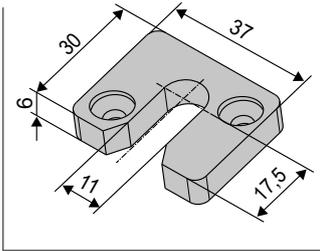
Locking plate is included separately



ORDER DATA						
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.	
18	415	FVUI	E6/C-0	1	515910	

OPTIONEN			
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:			
5m – non-halogen, grey – 3 x 0,5 mm ²		501034	
10 m – non-halogen, grey – 3 x 0,5 mm ²		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	1	524177	

ACCESSORIES

Locking plate			
B31		<p>Application Locking plate 6 mm alternative to the locking plate 8 mm due to limited rebate space</p>	<p>Part.-No. 515911 Material/Finish die-cast zinc Feature/Equipment 37 x 30 x 6 mm</p>



SPECIAL FEATURES FVUR

- For natural ventilation, smoke and heat exhausting and ferralux® NRWG (EN12101-2)
- 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 FVUx - sequence control via communication wire)
- Mounting on the window frame profiles of outward opening windows or on casement profiles of inward opening windows
- Coupling adapter activates the multi-point locking systems of the windows via additional locking roller
- Robust corrosion-resistant design in a aluminium housing (415 x 26 x 26 mm) or optionally in RAL colors
- Concealed cable terminals and internal push button for setting the running direction
- Coupling adapter customizable for project-/profile-specific demands

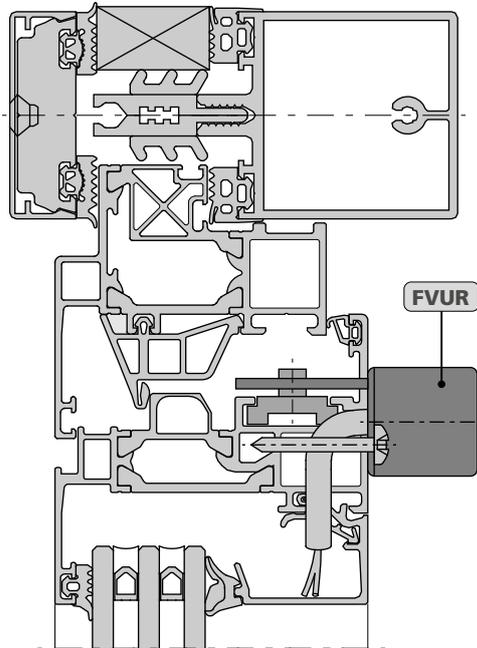
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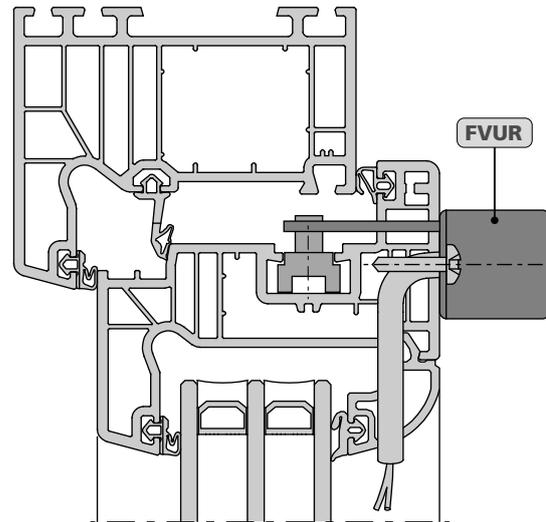
TYPICAL APPLICATIONS

1 FM, inward opening window



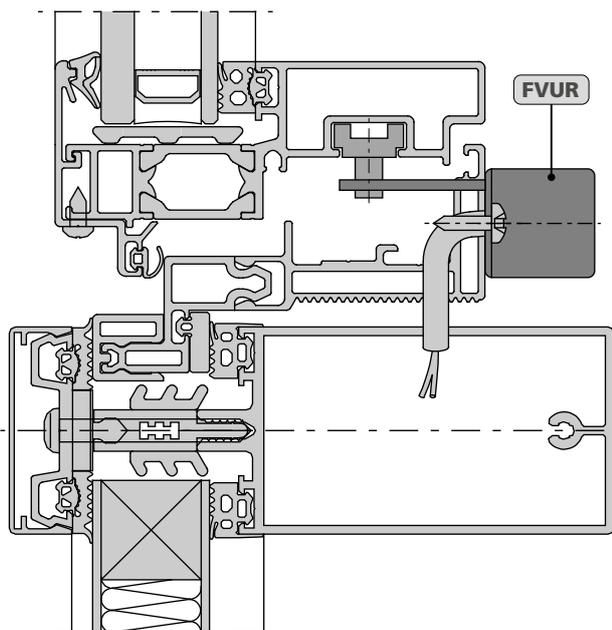
View on Alu window

2 FM, inward opening window



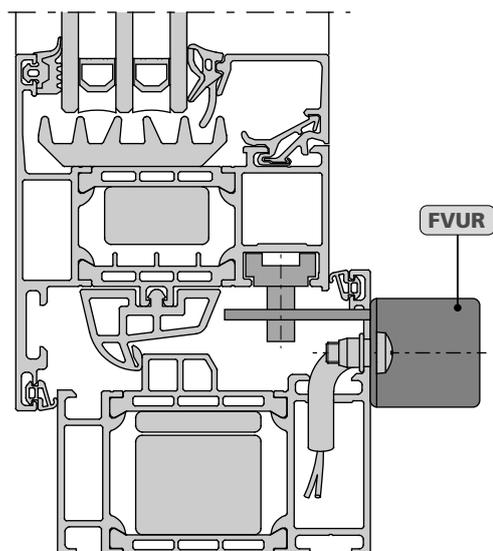
View on PVC window

3 RM, outward opening window



View on Alu window

4 RM, outward opening window



View on Alu window

- Application: natural ventilation, RWA, ferralux®-NRWG
- Surface mounting on the on the main / side closing edge (HSK / NSK) of the window frame profiles (RM) of inward opening windows
- Required mounting space 26 mm
- Locking drives for existing locking bar
- Running direction adjustable

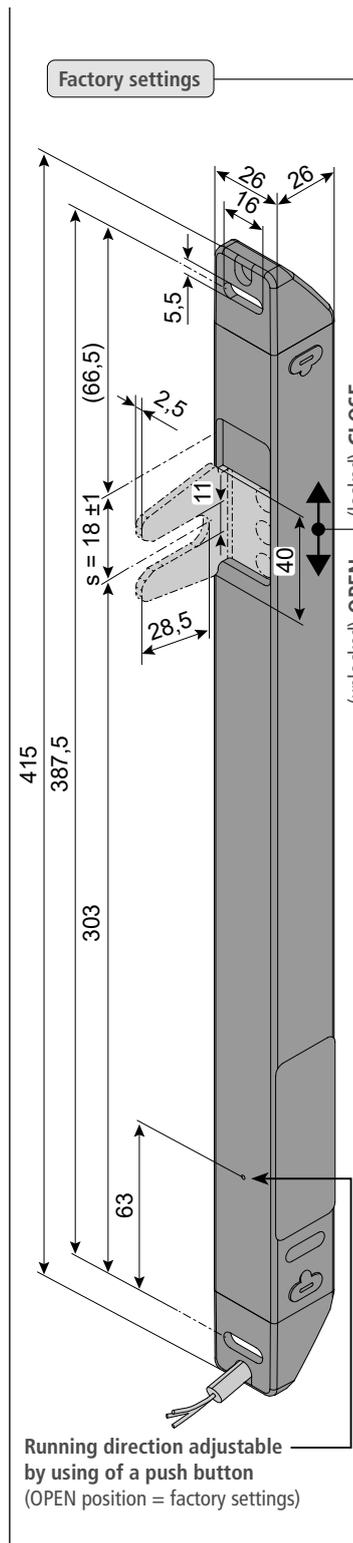
Options

- Coupling adapter customizable for project-/profile-specific demands

- M-COM suitable internal Control Electronics and sequence control for drives S3 / S12
- Star wiring
- Current of the drives does not run over FVUR
- Sequence control via communication wire

TECHNICAL DATA

U_N	Rated voltage	24 V DC (19 V ... 28 V)
I_N	Rated current	0,6 A
I_A	Cut-off current	~ 1,0 A
P_N	Rated power	15 W
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_A	Pushing force max.	~ 600 N
F_L	Breakout force max.	~ 1000 N
F_H	Pullout force max.	1.500 N
t	Running time	~ 5,0 s
s	Stroke	~ 18 mm (± 1)
	Connecting cable	non-halogen, grey $\varnothing 6,2$ mm, 3 x 0,5 mm ² , ~ 3 m
	Coupling adapter	stainless steel
	Housing	aluminium (E6/C-O)
L, (WxH)	Dimensions	L = 415 mm, 26 x 26 mm (B x H)
	Sound pressure level	≤ 70 dB (A)

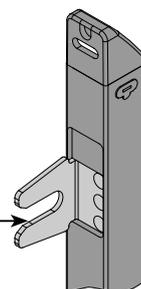


MOUNTED POSSIBILITIES OF THE COUPLING ADAPTER

Coupling adapter is included separately (optional installation possible)

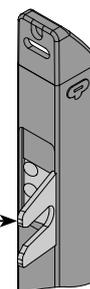
Mounting example "Version - 1"

Coupling adapter is included separately



Mounting example "Version - 2"

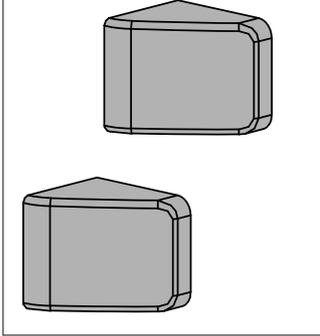
Coupling adapter is included separately



ORDER DATA						
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.	
18	415	FVUR	E6/C-0	1	515920	

OPTIONEN						
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:						
5m – non-halogen, grey – 3 x 0,5 mm ²						501034
10 m – non-halogen, grey – 3 x 0,5 mm ²						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					1	524177

ACCESSORIES

Cover cap						
	Application Cover cap for FVUB and FVUR and FVUE (replacement part).			Part.-No. 515921 Material/Finish plastic, RAL 7035 (light gray) Feature/Equipment 2 pieces		
				Part.-No. 515923 Material/Finish plastic, RAL 9004 (black) Feature/Equipment 2 pieces		



SPECIAL FEATURES FVUB

- For natural ventilation, smoke and heat exhausting and ferralux® NRWG (EN12101-2)
- With M-COM suitable internal load dependent cut-off switch and sequence control for drives (star wiring, drive current does not run over FVUx - sequence control via communication wire)
- Mounting on the window frame profiles of inward opening windows
- Coupling adapter activates the multi-point locking systems of the windows via additional locking roller
- Robust corrosion-resistant design in a aluminium housing (415 x 26 x 26 mm) or optionally in RAL colors
- Concealed cable terminals and internal push button for setting the running direction
- Coupling adapter customizable for project-/profile-specific demands

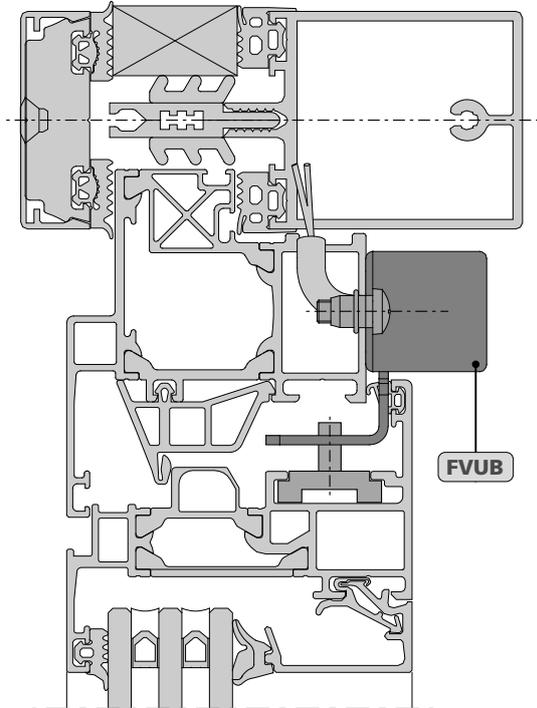
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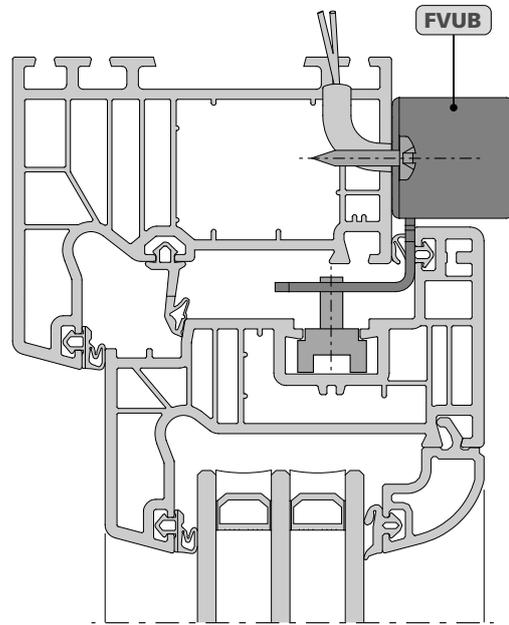
TYPICAL APPLICATIONS

1 RM, inward opening window



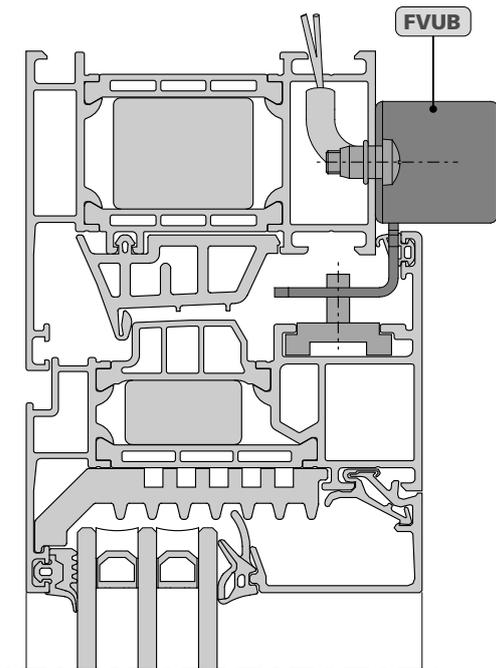
View on Alu window

2 RM, inward opening window



View on PVC window

3 RM, inward opening window



View on Alu window

- Application: natural ventilation, RWA, ferralux®-NRWG
- Surface mounting on the on the main / side closing edge (HSK / NSK) of the window frame profiles (RM) of inward opening windows
- Required mounting space 28 mm
- Locking drives for existing locking bar
- Running direction adjustable

Options

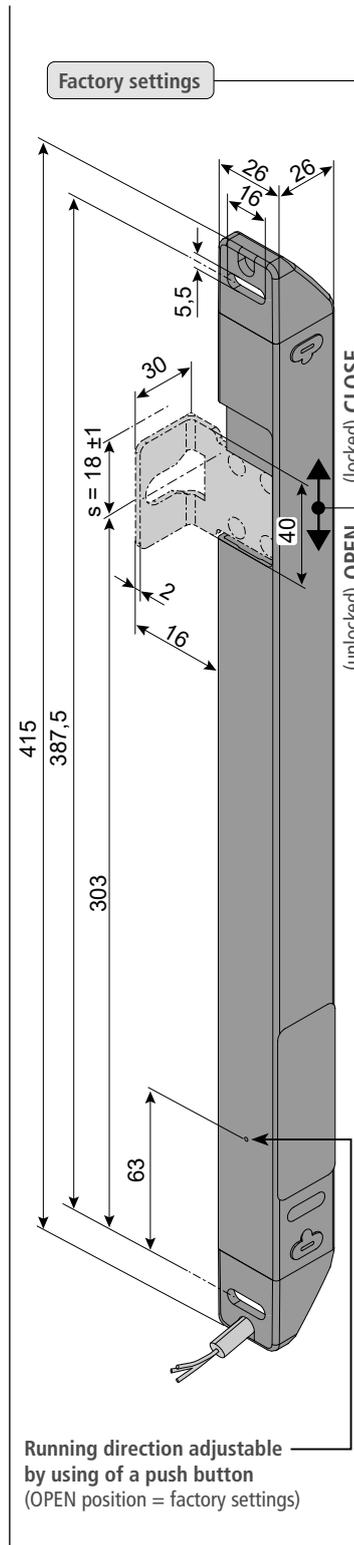
- Coupling adapter customizable for project-/profile-specific demands

(right)

- M-COM suitable internal Control Electronics and sequence control for drives S3 / S12
- Star wiring
- Current of the drives does not run over FVUB
- Sequence control via communication wire

TECHNICAL DATA

U_N	Rated voltage	24 V DC (19V ... 28V)
I_N	Rated current	0,6 A
I_A	Cut-off current	~ 1,0 A
P_N	Rated power	15 W
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_A	Pushing force max.	~ 600 N
F_L	Breakout force max.	~ 1000 N
F_H	Pullout force max.	1.500 N
t	Running time	~ 5,0 s
s	Stroke	~ 18 mm (± 1)
	Connecting cable	non-halogen, grey $\varnothing 6,2$ mm, 3 x 0,5 mm ² , ~ 3 m
	Coupling adapter	stainless steel
	Housing	aluminium (E6/C-O)
L, (WxH)	Dimensions	L = 415 mm, 26 x 26 mm (B x H)
	Sound pressure level	≤ 70 dB (A)

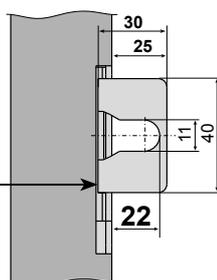


MOUNTED POSSIBILITIES OF THE COUPLING ADAPTER

Coupling adapter is included separately

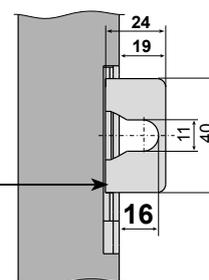
Accessories: Coupling adapter (separate order)

Coupling adapter is included separately



Accessories optional order Part.-No. 515931

Coupling adapter additionally order



- Application: natural ventilation, RWA, ferralux®-NRWG
- Surface mounting on the on the main / side closing edge (HSK / NSK) of the window frame profiles (RM) of inward opening windows
- Required mounting space 28 mm
- Locking drives for existing locking bar
- Running direction adjustable

Options

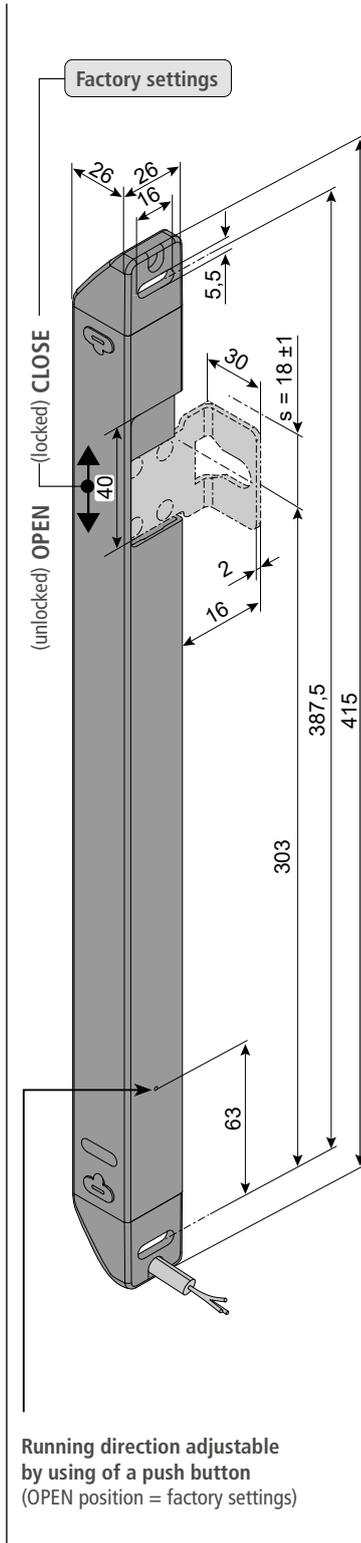
- Coupling adapter customizable for project-/profile-specific demands

(left)

- M-COM suitable internal Control Electronics and sequence control for drives S3 / S12
- Star wiring
- Current of the drives does not run over FVUB
- Sequence control via communication wire

TECHNICAL DATA

U_N	Rated voltage	24 V DC (19V ... 28V)
I_N	Rated current	0,6 A
I_A	Cut-off current	~ 1,0 A
P_N	Rated power	15 W
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_A	Pushing force max.	~ 600 N
F_L	Breakout force max.	~ 1000 N
F_H	Pullout force max.	1.500 N
t	Running time	~ 5,0 s
s	Stroke	~ 18 mm (± 1)
	Connecting cable	non-halogen, grey ø 6,2 mm, 3 x 0,5 mm ² , ~ 3 m
	Coupling adapter	stainless steel
	Housing	aluminium (E6/C-O)
L, (WxH)	Dimensions	L = 415 mm, 26 x 26 mm (B x H)
	Sound pressure level	≤ 70 dB (A)



MOUNTED POSSIBILITIES OF THE COUPLING ADAPTER

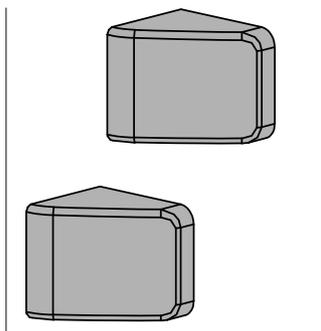
Coupling adapter is included separately	Accessories: Coupling adapter (separate order)
<p>Coupling adapter is included separately</p>	<p>Accessories optional order Part.-No. 515931</p> <p>Coupling adapter additionally order</p>

ORDER DATA						
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.	
18	415	FVUB R	E6/C-0	1	515930	
18	415	FVUB L	E6/C-0	1	515940	

OPTIONEN						
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:						
5m – non-halogen, grey – 3 x 0,5 mm ²						501034
10 m – non-halogen, grey – 3 x 0,5 mm ²						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					1	524177

ACCESSORIES

Cover cap



Application

Cover cap for FVUB and FVUR and FVUE (replacement part).

Part.-No. 515921

Material/Finish

plastic,
RAL 7035 (light gray)

Feature/Equipment

2 pieces

Part.-No. 515923

Material/Finish

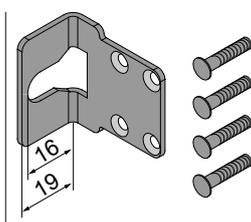
plastic,
RAL 9004 (black)

Feature/Equipment

2 pieces

Coupling adapter

**FVUB
-16mm**



Application

Coupling adapter-16 mm for locking pin in the FVUB (coupling adapter length is 19 mm).
As an alternative to the coupling adapter-22 mm (coupling adapter length is 25 mm).

Part.-No. 515931

Material/Finish

stainless steel

Feature/Equipment

1x coupling adapter,
4x screws

OPTIONAL ACCESSORIES

Main control unit			
<p>M-COM</p> 	<p>Application</p> <p>Configuration module for automatic configuration and surveillance of max. 4 opening drives / 2 locking drives version S12 / S3 in synchronised multi-drive systems</p> <p>Rated voltage: 24V DC (19V ... 28V)</p> <p>Current consumption: <12 mA</p> <p>Drive type: S12</p>	<p>Part.-No. 524177</p> <p>Protection rating IP30 rubber coated</p> <p>Ambient temperature range 0 °C ... + 70 °C</p> <p>Dimensions 45 x 17 x 6 mm</p> <p>Connecting wires 3 wires 0,5 mm² x 50 mm</p> <p>Feature/Equipment Printed circuit board with components and connection wires to be installed in connection box to be supplied on site</p>	

OPTIONEN			
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:			
5m – non-halogen, grey – 3 x 0,5 mm ²		501034	
10 m – non-halogen, grey – 3 x 0,5 mm ²		501036	
Microprocessor programming S12			
Programming drives 24V / 230V S12		524180	
Optional accessories			
M-COM Configuration module for synchronised multi-drive systems	1	524177	



SPECIAL FEATURES FVUE

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- 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 FVUx - sequence control via communication wire)
- Mounting on the window frame profiles of inward opening windows
- The Coupling adapter engages in the locking bolt attached to the sash
- Robust corrosion-resistant design in a aluminium housing (415 x 26 x 26 mm) or optionally in RAL colors
- Concealed cable terminals and internal push button for setting the running direction
- Coupling adapter customizable for project-/profile-specific demands

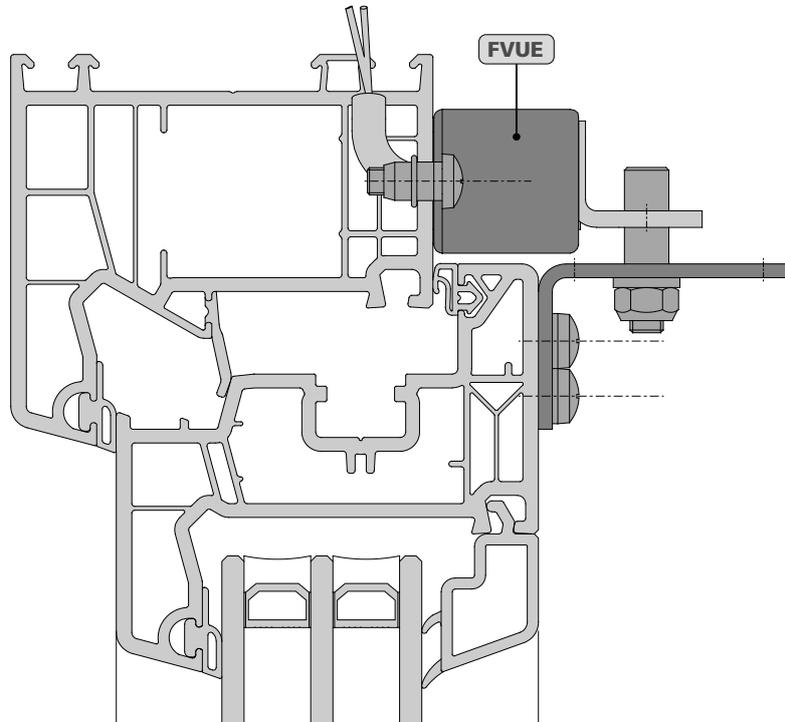
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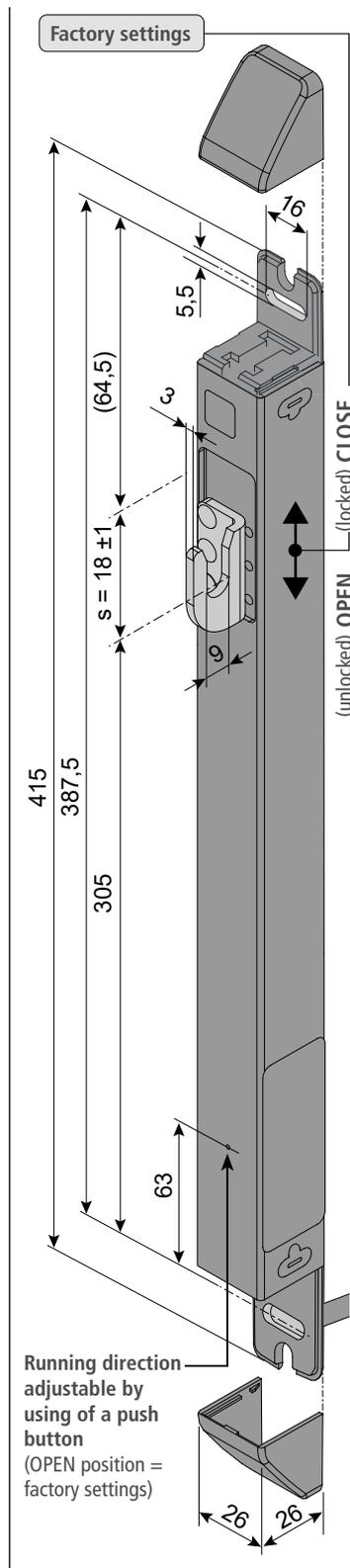
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TYPICAL APPLICATIONS

1 RM, inward opening window



View on PVC window



- Application: natural ventilation, RWA, ferralux®-NRWG
- Surface mounting on the on the main / side closing edge (HSK / NSK) of the window frame profiles (RM) of inward opening windows
- Required mounting space 28 mm
- Locking drives for applications without locking bar
- Running direction adjustable

Options

- Coupling adapter customizable for project-/profile-specific demands

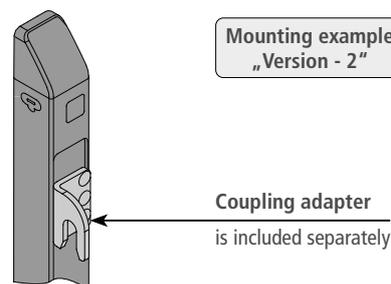
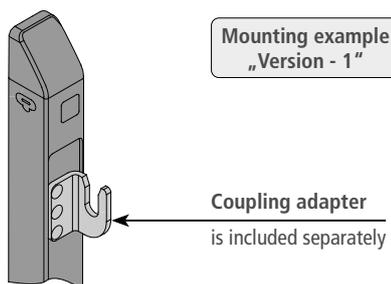
- M-COM suitable internal Control Electronics and sequence control for drives S3 / S12
- Star wiring
- Current of the drives does not run over FVUE
- Sequence control via communication wire

TECHNICAL DATA

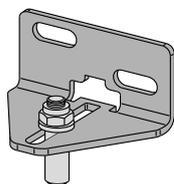
U_N	Rated voltage	24 V DC (19 V ... 28 V)
I_N	Rated current	0,6 A
I_A	Cut-off current	~ 1,0 A
P_N	Rated power	15 W
DC	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 32
	Ambient temperature range	-5 °C ... +60 °C
F_A	Pushing force max.	~ 600 N
t	Running time	~ 5,0 s
s	Stroke	~ 18 mm (± 1)
	Connecting cable	non-halogen, grey ø 6,2 mm, 3 x 0,5 mm ² , ~ 3 m
	Coupling adapter	stainless steel
	Housing	aluminium (E6/C-O)
L, (WxH)	Dimensions	L = 415 mm, 26 x 26 mm (B x H)
	Sound pressure level	≤ 70 dB (A)

MOUNTED POSSIBILITIES OF THE COUPLING ADAPTER

Coupling adapter is included separately (optional installation possible)



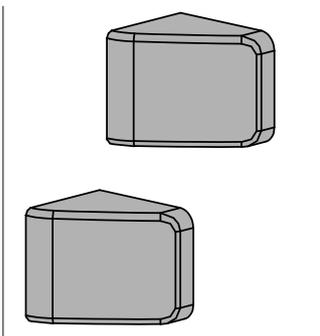
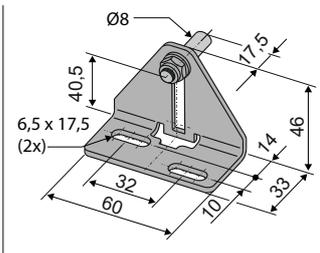
Locking angle B18 (included)



ORDER DATA						
s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.	
18	415	FVUE	E6/C-0	1	515915	

OPTIONEN			
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:			
5m – non-halogen, grey – 3 x 0,5 mm ²		501034	
10 m – non-halogen, grey – 3 x 0,5 mm ²		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	1	524177	

ACCESSORIES

Cover cap			
	<p>Application Cover cap for FVUB and FVUR and FVUE (replacement part).</p>	<p>Part.-No. 515921 Material/Finish plastic, RAL 7035 (light gray) Feature/Equipment 2 pieces</p>	
		<p>Part.-No. 515923 Material/Finish plastic, RAL 9004 (black) Feature/Equipment 2 pieces</p>	
Locking angle			
<p>B18</p> 	<p>Application ANGLE WITH ADJUSTABLE LOCKING BOLT at surface mounting for compensation of the profile overlap FÜ <10 mm. Required mounting space 35 mm.</p>	<p>Part.-No. 301595 Material/Finish stainless steel Feature/Equipment 1x locking pin Ø 8x30, 1x nut M6, 1x washer A6,4</p>	