

OVERVIEW OF RWA HARDWARE SYSTEMS																					
RWA hardware system	Rated voltage	Locking drive			Opening drives	Accessories			Casement dimensions						Required mounting space	Use			Location		
		Type	Number of VP	Length		Control modules Accessories	Frame bracket	Casement bracket	Bottom-/top-hung			Side-hung				Natural ventilation	RWA	NSHEV	Facade		Roof
									FAB	FAH	max. weight	FAB	FAH	max. weight					inward	outward	
[VDC]				[mm]	[A]			[mm]	[mm]	[Kg]	[mm]	[mm]	[Kg]	[mm]							
1000	24	FV3	1 (*1)	450	PL6	(B20-1)	K15	F11	500	600	50	600	500	90	40	●	●	●	●	■	■
					PL10						90	- 1500		150		●	●	●	●	■	■
		OFV (*3)	(*2)	PL6	- 1200	- 1500	50	500	- 2400	90	●	●	●	●		■	■				
				PL10			90	- 1500	150	●	●	●	●	■		■					
1000-TE	24	FV1	2; 3	1200	2x PL6	USKM	2x K15	2x F11	1250	600	90	600	1250	130	40	●	●	●	●	■	■
					2x PL10						- 2400			160		- 2400	200	●	●	●	●
		OFV (*4)	3	2000	2x PL6	USKM	- 2000	- 1500	2050	130	90	- 2400	2050	130		●	●	●	●	■	■
					2x PL10						160			- 2400		200	●	●	●	●	■
1100	24	FV3 (*3 *2)	1 (*1)	450	PL6	B21-1	K15 (K37)	F11	500	800	70	600	500	90	40	●	●	●	■	●	■
					PL10						- 1200	120		- 1500		- 2400	150	●	●	●	■
1100-TE	24	FV1 (*4 *2)	2; 3	1200	2x PL6	USKM (B20-2)	2x K15 (2x K37)	2x F11	1250	800	130	600	1250	130	40	●	●	●	■	●	■
					2x PL10						- 2400			200		- 2400	200	●	●	●	■
		OFV (*4 *2)	3	2000	2x PL6	USKM (B20-3)	- 2000	- 1500	2050	130	130	- 2400	2050	130		●	●	●	■	●	■
					2x PL10						200			- 2400		200	●	●	●	■	●
1050	24	FV3 (*3 *2)			PL6		K97 (re/li)	F11				550	500	90	20	●	●	●	●	■	■
					PL10									- 1250		- 1500	130	●	●	●	●
		OFV (*3)	(*2)	PL6									90				●	●	●	●	■
				PL10									130	●		●	●	●	■	■	
1050-TE	24	FV1	(*1)		2x PL6	USKM	K97 re+li	2x F11				550	500	130	20	●	●	●	●	■	■
					2x PL10									- 1500		- 2400	150	●	●	●	●
		OFV (*4)	(*2)	2x PL6													130	●	●	●	●
				2x PL10										150		●	●	●	●	■	■

LEGEND

● suitable ■ not recommended

(*1) On the main closing edge of side-hung windows use of FV with 2 or 3 locking points (VP) is possible

(*2) Window specific multi-locking system

(*3) Use of FVR3 / FVB3 possible

(*4) Use of FVR4 / FVB4 possible

OVERVIEW OF SPINDLE DRIVES																	
Opening drives	Version		Stroke	Force		Speed		Stroke in	Cut-off current	Use			Location		Function		
	Cut-off switch	Rated voltage	up – to	Pulling force	Pushing force	OPEN	ZU	60 s	Max.	Natural ventilation	SHEV	NSHEV	Facade	Roof	Run monitoring	Synchronised run	Sequence control
		[VDC]	[mm]	[N]	[N]			[mm]	[A]								
PL6	S1	24	100–300	600	600	5,8	5,8	350	0,8	●	●	●	●		○		○
PL10	S1	24	100–300	1000	1000	2,6	2,6	150	0,8	●	●	●	●		○		○

OVERVIEW OF LOCKING DRIVES																	
Locking drives	Locking stroke (Rotating angle)	Rated voltage	Force (Torque)		Runtime	Close circuit current	Opening drives		Use			Location		Functions			
			Pulling/Pushing force	Initial force (torque)			Model	Cut-off current	Natural ventilation	SHEV	NSHEV	Facade	Roof	Run monitoring	Synchronised run	Sequence control	
	[mm]	[VDC]	[N]	[N]	[s]	[A]		[A]									
FV1		24	600	1000	5,0	0,3	○	○	●	●	●	●					○
FV3		24	600	1000	5,0	0,3	S1	0,8	●	●	●	●					●
FVR3	18	24	600	1000	5,0	0,3	S1	0,8	●	●	●	●					●
FVB3	16/22	24	600	1000	5,0	0,3	S1	0,8	●	●	●	●					●
OFV	90° – 180°	24	10 Nm	22 Nm	4,5/9,0	0,3	S1	0,9–3,0	●	●	●	●					●

LEGEND

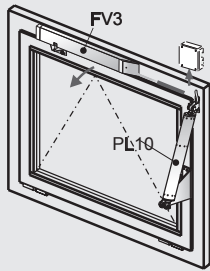
● suitable ■ not recommended

S1 without internal cut-off switch for operation with RWA1000-, RWA1100-, RWA1050-systems

○ only with external cut-off switch or control module USKM

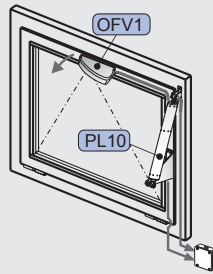
TYPICAL APPLICATION

RWA1000 – inward opening



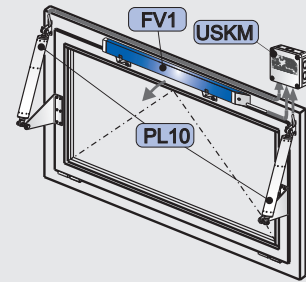
View on bottom-hung window

RWA1000 – inward opening



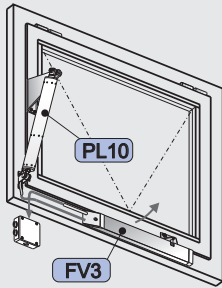
View on bottom-hung window

RWA1000 TE – inward opening



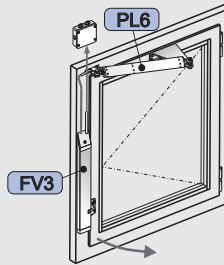
View on bottom-hung window

RWA1000 – inward opening



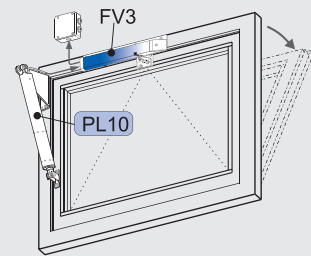
View on top-hung window

RWA1000 – inward opening



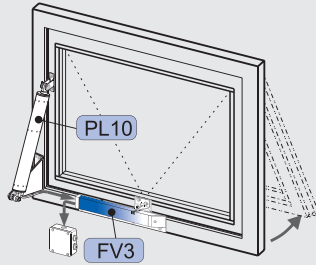
View on side-hung window

RWA1100 – outward opening



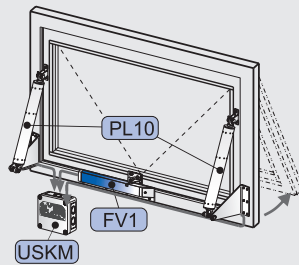
View on bottom-hung window

RWA1100 – outward opening



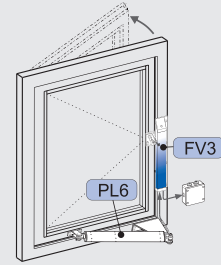
View on top-hung window

RWA1100 TE – outward opening



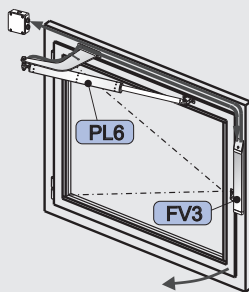
View on top-hung window

RWA1100 – outward opening



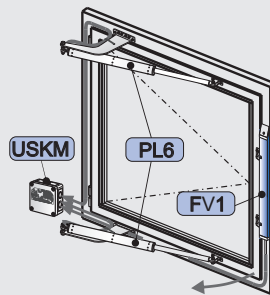
View on side-hung window

RWA1050 – inward opening



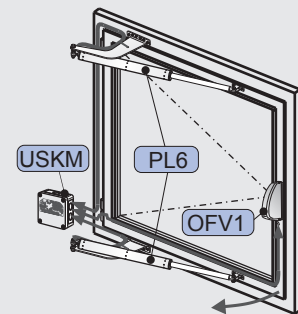
View on side-hung window

RWA1050 TE – inward opening



View on side-hung window

RWA1050 TE – inward opening



View on side-hung window