Precisely fitting attachment systems for each safety switch

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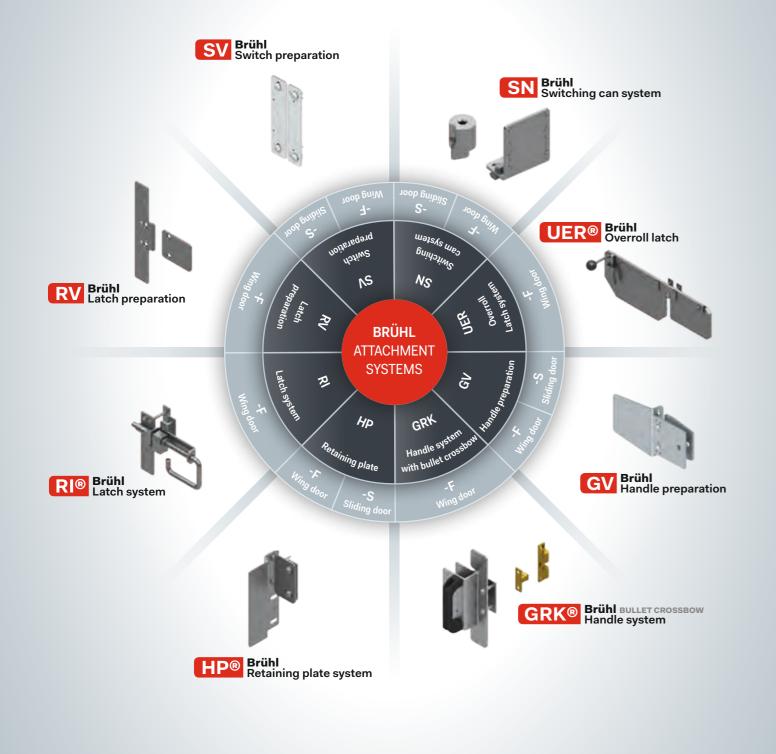
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In addition to all safety doors, Brühl offers a comprehensive range of attachment systems for safety switches that meets every customer wish. Brühl relies both on high-quality goods from renowned manufacturers and on high-quality components from own production. These products have proven their worth where handling and wear is concerned in thousands of applications in the past



Attachment systems for safety switches **Brühl combination overview**

This figure provides a first overview of our diverse attachment systems. We provide the precisely fitting attachment system for every door build. We rely on cooperation with renowned manufacturers or our internally developed and produced preparations.



Overview: Advantages of the Brühl attachment systems for safety switches

Diverse possible combinations

Thanks to the diversity of attachment systems Many accessory elements can be replaced for safety switch, access doors of all kinds with easily at any time thanks to their modular build different closure or opening options can be put (e.g. handles or latch). Simple adjustment of together. The right safety switch or the right attachment system for any application will be available.

Flexible and modular uses

the many attachment systems.

Assembly instructions included

Brühl protective facilities with the correspond-The complete delivery includes an understanding attachment systems are designed to avoid able assembly instruction for each product. mechanical manipulations by users as far as possible.

Prod	uct description	Product type/ construction type
	Wing door for handle, latch or deadlock slam lock, opposite sides	FTW
	Wing door for handle, latch or deadlock slam lock, 1600-3000 mm	FT
ors	Wing door for handle, latch or deadlock slam lock, opposite sides, with skylight	FTWO
Wing doors	Portal wing door for handle, latch or deadlock slam lock, opposite sides	PFTW
Ň	Wing door for handle, latch or deadlock slam lock, opening inwards	FTEO
	Double wing door for handle, latch or deadlock slam lock	DFT
	Double wing door for handle, latch or deadlock slam lock, with skylight	DFTO
ors Ig	Swing door	РТ
Swing doors door wing	Swing door with high post	НРТ
Swir doc	Door wing for handle, latch or deadlock slam lock	TFO
	Sliding door for handle or hook lock	ST
s	Sliding door for handle or hook lock, inner track	STI
door	Sliding door for handle or hook lock, with skylight	STO
Sliding doors	Double sliding door for handle or hook lock	DST
S	Sliding door for handle or hook lock, opening on both sides	STB
	Double sliding door for handle or hook lock, with skylight	DSTO
ş	Folding wing door for latch	FAFTR
Folding doors	Double folding wing door for latch	DFAFTR
Iding	Folding sliding door	FASTG
Fe	Double folding sliding door	DFASTG
ng ors	Sliding door for handle or hook lock, telescoping	sп
Telescoping sliding doors	Sliding door for handle or hook lock, opening on both sides, telescoping	STBT
sli sli	Double sliding door for handle or hook lock, telescoping	DSTT
	Self-supported sliding door with hook lock	FSTS
ted	Self-supported sliding door for handle	FSTG
Self-supported sliding doors	Self-supported sliding door with hook lock and telescopic guide	FSTST
elf-su sliding	Self-supported sliding door for handle, with telescopic guide	FSTGT
s, s	Self-supported sliding door with hook lock, two wings	FSTS-2
	Self-supported sliding door for handle, two wings	FSTG-2

9 Please indicate the complete designation of the safety switch and actuator in your order/request at all times. 9 Call us if the attachment system for safety switch chosen by you is not available in our product selection For product combinations, see p. 185.

Quality and reliability

The cooperation with renowned manufacturers ensures bet reliability and quality in all products.

Prevention of mechanical manipulation

JER-FR S-NS GV-F × • • × × • • × • • . • × • • • × • × ٠ • × × • . × • • . • × • × × • × ٠ • × × • × × × • • × × • × × × × × • × × • × • × • • . ٠ . • × × • × • × • • × × ٠ • . × × × × × × × × × • × × × × × × × × × × × × × • × × × • • × × • × × • × • × • • • × × × × × • • × • • . × × × × × × ٠ × × × • ٠ × × ٠ × ٠ • • × × × × × . × ٠ × × x x • • ٠ × × × × • x x x x • × × × • × x x x x • × × • × • . x x × × x x x x × × × ٠ x x x x × × × × × × × ٠ × × × × × × × × × × × • × × × × × × × × × • × × × × • × × × × ٠ × • • × × • × × ٠ × • • × × × . × × • × × × • • × × × × • × × • × × • × • × × × × × • × • × × × × × × × ٠ × × × • x x x x • × × × × ٠ × × × × × × × × × × × • × ٠ × × × × × × × • × × nent. × Combination is not possible. O Combination possible optionally. Combination is possible.





Ы Robust zinc-plated surface ISO 14120, 5.6

Ы

Ы Symmetrical con-Rounded laser canting parts struction for door stop device DIN left/ © ISO 14120, 5.3.7 DIN right

Precisely fitting Precisely fitting threads for switch provisions for attachment safety switch ➔ ISO 14119, 5.2/(j)

Ы

Ы



Handle preparation BRÜHL-GV

The grip system BRÜHL-GV is a precisely fitting preparation for attachment of compact and multifunctional safety holding-shut devices for different safety switchgear manufacturers. Depending on the switch build, the product properties include an additional mechanical stop to

This is how it works:	
 You have already chosen a safety switch: e.g. Euchner MGB. DIN EN ISO 14119 	We supply the attachment system preparation BRÜH matching provision

Overview of grip preparations BRUHL-GV for wing doors					
urer	Switch assembly	ltem no.			
EUCHNER	MGB	GV-F-V2-MGB-B004			
G Fortress	amGardpro EI-I6	GV-F-V4-EII6-B090			
Interlocks	amGardpro EN-T6	GV-F-V4-EN4T6SL-B085			
	Knox	GV-F-V3-KNOX-B069			
	AZM200	GV-F-V2-AZM200-B003			
	AZM200-SZ200	GV-FR-V2-AZM200-SZ200-B035			
S SCHMERSAL	AZ200-SZ200	GV-FR-V2-AZ200-SZ200-B035			
	AZM200-SZ200	GV-FL-V2-AZM200-SZ200-B036			
	AZ200-SZ200	GV-FL-V2-AZ200-SZ200-B036			
	EUCHNER	Switch assembly EUCHNER MGB GFortress amGardpro EI-I6 Interlocks Knox AZM200 AZM200-SZ200 AZM200-SZ200 AZM200-SZ200			

Overview of grip preparations BRÜHL-GV for sliding doors

Manufacturer		Switch assembly	ltem no.
Euchner	EUCHNER	MGB	GV-S-V2-MGB-B059
Schmersal	S SCHMERSAL	AZM200	GV-S-V2-AZM200-B060

PRODUCT OPTION

Protection against reaching through

for safety switch

with flight unlatching

• Ordering options

s. p. 171.

Explanation of attachment situation abbreviations FL = wing door DIN left (doors attached on the left), FR = wing door DIN right (doors attached on the right), F = wing door, S = sliding door

- Safety switches are <u>not</u> enclosed.
- Screws for switch attachments are not enclosed. Cf. EN ISO 14119, 7.2 c and table 3.
- O Attachment elements can only be released with
- tools. Cf. EN ISO 14119, 52 (a).
- Observe for fence planning: For grip preparations, the attachment system may protrude in one outer corner; at inner corners, you may need to plan for an additional fence element (e.g. Euchner MGB).
- To prevent reaching over and actuation of the flight unlatching mechanism, we recommend that the door height be at least 1800 mm and a transfer with a diagonal element at low fence heights. 🕏 See special elements p. 36 and 46. See combination overview on p. 185.

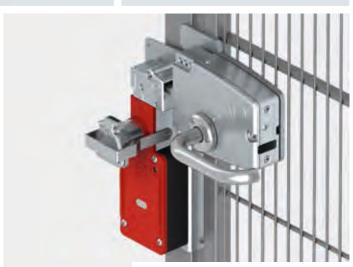
avoid damage to the door and safety switch, robust zinc-plated surfaces and precisely fitting threads for quick installation.



em to match: Grip HL-GV with on.



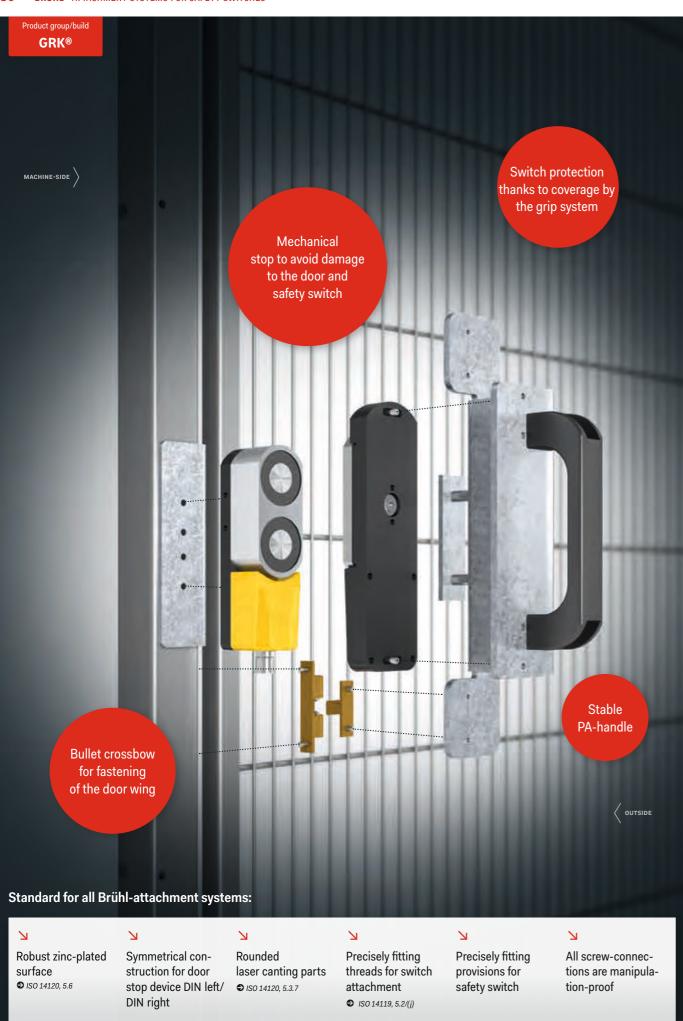
You will receive a precisely fitting attachment system for your safety switch.



Product example: Grip preparation with safety switch by Fort



Product example: Protection against reaching through



Handle system with bullet crossbow BRÜHL-GRK®

The attachment system BRÜHL-GRK® is the standard attachment system for the precisely fitting attachment of safety switches at Brühl-wing doors. The safety switch is attached from the outside of the machine at the height of the stable plastic handle. The system is characterised by an optional bullet crossbow that is used accord-



▶ We supply the attachment system to match: Grip system with bullet crossbow BRÜHL-GRK® with matching provision.

Overview grip system with bullet crossbow BRÜHL-GRK® for wing doors

switch, e.g. Siemens 3SE5.⁰

DIN EN ISO 14119

Manufacturer		Switch assembly	ltem no.
Demotria		SK	GRK-F-V4-SK-B001
Bernstein		SKC	GRK-F-V4-SKC-B001
Honeywell	Honeywell	GKN	GRK-F-V4-GKN-B001
ABB		Magne	GRK-F-V2-MAGNE-B071
		PSENme2	GRK-F-V4-PSENME2-B001
Pilz	PILZ	PSENme3	GRK-F-V4-PSENME3-B001
		PSENslock	GRK-F-V2-PSENSL-B043
		MZM100	GRK-FEO-V1-MZM100-B005
	S SCHMERSAL	AZ15	GRK-F-V4-AZ15-B001
		AZ16	GRK-F-V4-AZ16-B001
		AZ300	GRK-F-V2-AZ300-B078
		AZM161	GRK-F-V4-AZM161-B002
Schmersal		AZM170	GRK-F-V4-AZM170-B055
		AZM300	GRK-F-V2-AZM300-B078
		EX-AZ16	GRK-F-V4-EX-AZ16-B001
		EX-AZM161	GRK-F-V4EX-AZM161-B002
		MZM100	GRK-F-V2-MZM100-B006
		BNS-B20	GRK-F-V3-BNS-B20-B007
Sick		i16	GRK-F-V4-i16-B001
SICK	SICK	i17	GRK-F-V4-i17-B001
Siemens	CIEMENC	3SE2	GRK-F-V4-3SE2-B001
Siemens	SIEMENS	3SE5	GRK-F-V2-3SE5-B040
Rockwell Automation		440K-T	GRK-F-V4-440K-T-B001

Explanation of attachment situation abbreviations: F = wing door, FEO = wing door opening inwards

• Safety switches are <u>not</u> enclosed.

• Screws for switch attachments are <u>not</u> enclosed.

Cf. EN ISO 14119, 7.2 c and table 3.

1 Attachment elements can only be released with tools. Cf. EN ISO 14119, 52 (a).

See combination overview on p. 185.

ing to the Brühl product recommendation for safety switches with a latching force below 30 N. The attachment system can be used for doors attached on the right or on the left. The Brühl grip system can be combined with different manufacturer-comprehensive safety switches.



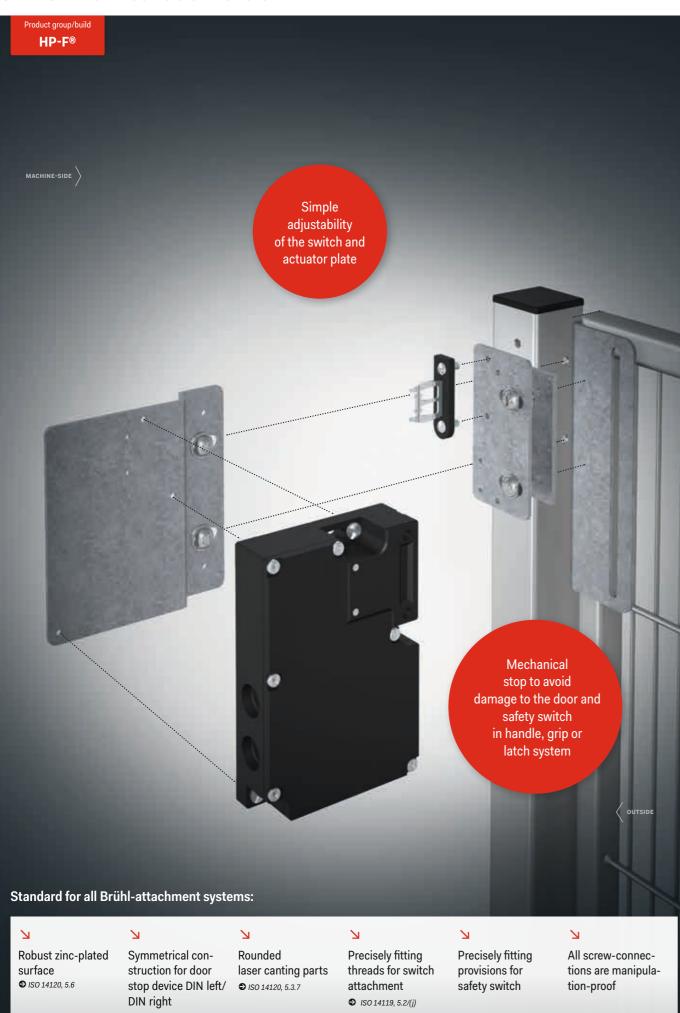


You will receive a precisely fitting attachment system for your safety switch.

SYSTEMS







Retaining plate system BRÜHL-HP-F® for wing doors

The retaining plate system BRÜHL-HP-F® is supplemented according to access comfort with a handle set, a handle or latch. The safety switch is attached with the Brühl retaining plate system in the upper area of the door wing on the machine side. The system can be used for doors attached on the left or right equally. Aluminium plugs serve



You have already chosen a safety switch, e.g. SchmersalAZM161.

DIN EN ISO 14119

Overview of retaining plate system BRÜHL-HP-F® for wing doors

Manufacture	r	Switch assembly	Item no.	Manufacture	r	Switch assembly	ltem no.
		SK	HP-F-V1-SK-B052		PILZ	PSENme1	HP-F-V1-PSENME1-B012
Bernstein		SKC	HP-F-V1-SKC-B052	D'I-		PSENme2	HP-F-V1-PSENME2-B052
		SLK	HP-F-V1-SLK-B012	Pilz	PILZ	PSENme3	HP-F-V1-PSENME3-B052
Comitronic-BTI		AMX	HP-F-V1-AMX-B067			PSENslock	HP-F-V2-PSENSL-B041
		CET	HP-F-V1-CET-B049	Rockwell		4 401/ T	
		GP	HP-F-V1-GP-B013	Automation		440K-T	HP-F-V1-440K-T-B052
		NZ	HP-F-V1-NZ-B011			AZ15	HP-F-V1-AZ15-B052
		SGP	HP-F-V1-SGP-B013			AZ16	HP-F-V1-AZ16-B052
Euchner	EUCHNER	STA	HP-F-V1-STA-B013			AZ17	HP-F-V1-AZ17-B058
		STP	HP-F-V1-STP-B013			AZ300	HP-F-V1-AZ300-B079
		TP	HP-F-V1-TP-B013		S SCHMERSAL	AZM161	HP-F-V1-AZM161-B038
		TZ	HP-F-V1-TZ-B030	Schmersal		AZM170	HP-F-V1-AZM170-B038
	Honeywell	GKN	HP-F-V1-GKN-B052			AZM300	HP-F-V1-AZM300-B079
Honeywell		GKS	HP-F-V1-GKS-B013			BNS16	HP-F-V1-BNS16-B052
euze	A Laura ala duania	L200	HP-F-V1-L200-B013			BZ16	HP-F-V1-BZ16-B052
electronic	4 Leuze electronic	S20	HP-F-V1-S20-B058			EX-AZ16	HP-F-V1-EX-AZ16-B052
Omron	00000	D4NL	HP-F-V1-D4NL-B046			EX-AZM161	HP-F-V1-EX-AZM161-B038
Electronics	OMRON	D4NS	HP-F-V1-D4NS-B058			XCS-A	HP-F-V1-XCS-A-B011
						XCS-B	HP-F-V1-XCS-B-B011
Overvie <u>w</u>	Overview of retaining plate system BRÜHL-HP-FEO®						
			UHL-HP-FEO®	Tolomo		XCS-C	HP-F-V1-XCS-C-B011
			UHL-HP-FEO®	Teleme- canique	Telemecanique	XCS-C XCS-E	HP-F-V1-XCS-C-B011 HP-F-V1-XCS-E-B030
	ors opening inw		UHL-HP-FEO®		Telemecanique Sensors		
	ors opening inw		UHL-HP-FEO®	canique		XCS-E	HP-F-V1-XCS-E-B030
for wing do Manufacture _{Rockwell}	ors opening inw	ards Switch assembly	ltem no.	canique		XCS-E XCS-PA	HP-F-V1-XCS-E-B030 HP-F-V1-XCS-PA-B052
for wing do Manufacture _{Rockwell}	ors opening inw	Switch assembly 440K-T	Item no. HP-FEO-V1-440K-T-B008	canique		XCS-E XCS-PA XCS-TA	HP-F-V1-XCS-E-B030 HP-F-V1-XCS-PA-B052 HP-F-V1-XCS-TA-B052
for wing do Manufacture Rockwell Automation	ors opening inwa	ards Switch assembly 440K-T SK	Item no. HP-FEO-V1-440K-T-B008 HP-FEO-V1-SK-B008	canique Sensors	Sensors	XCS-E XCS-PA XCS-TA XCS-TE	HP-F-V1-XCS-E-B030 HP-F-V1-XCS-PA-B052 HP-F-V1-XCS-TA-B052 HP-F-V1-XCS-TE-B030
for wing do Manufacture Rockwell Automation Bernstein	ers opening inwa	ards Switch assembly 440K-T SK SKC	Item no. HP-FEO-V1-440K-T-B008 HP-FEO-V1-SK-B008 HP-FEO-V1-SKC-B008	canique		XCS-E XCS-PA XCS-TA XCS-TE i10	HP-F-V1-XCS-E-B030 HP-F-V1-XCS-PA-B052 HP-F-V1-XCS-TA-B052 HP-F-V1-XCS-TE-B030 HP-F-V1-i10-B013
for wing do Manufacture Rockwell Automation Bernstein	ors opening inwa	ards Switch assembly 440K-T SK SKC GKN	Item no. HP-FEO-V1-440K-T-B008 HP-FEO-V1-SK-B008 HP-FEO-V1-SKC-B008 HP-FEO-V1-GKN-B008	canique Sensors	Sensors	XCS-E XCS-PA XCS-TA XCS-TE i10 i12	HP-F-V1-XCS-E-B030 HP-F-V1-XCS-PA-B052 HP-F-V1-XCS-TA-B052 HP-F-V1-XCS-TA-B030 HP-F-V1-i10-B013 HP-F-V1-i12-B058
for wing do Manufacture Rockwell Automation Bernstein Honeywell	ers opening inwa	ards Switch assembly 440K-T SK SKC GKN PSENme2	Item no. HP-FEO-V1-440K-T-B008 HP-FEO-V1-SK-B008 HP-FEO-V1-SKC-B008 HP-FEO-V1-GKN-B008 HP-FEO-V1-PSENME2-B008	canique Sensors	Sensors	XCS-E XCS-PA XCS-TA XCS-TE i10 i12 i16	HP-F-V1-XCS-E-B030 HP-F-V1-XCS-PA-B052 HP-F-V1-XCS-TA-B052 HP-F-V1-XCS-TE-B030 HP-F-V1-i10-B013 HP-F-V1-i12-B058 HP-F-V1-i16-B052
for wing do Manufacture	ers opening inwa BERNSTEIN Honeywell	ards Switch assembly 440K-T SK SKC GKN	Item no. HP-FEO-V1-440K-T-B008 HP-FEO-V1-SK-B008 HP-FEO-V1-SKC-B008 HP-FEO-V1-GKN-B008	canique Sensors	Sensors	XCS-E XCS-PA XCS-TA XCS-TE i10 i12 i16 i17	HP-F-V1-XCS-E-B030 HP-F-V1-XCS-PA-B052 HP-F-V1-XCS-TA-B052 HP-F-V1-XCS-TE-B030 HP-F-V1-i10-B013 HP-F-V1-i12-B058 HP-F-V1-i16-B052 HP-F-V1-i17-B052

Manufacture	r	Switch assembly	Item no.
Rockwell Automation		440K-T	HP-FEO-V1-440K-T-B008
Bernstein		SK	HP-FEO-V1-SK-B008
Demstein	BERINSTEIN	SKC	HP-FEO-V1-SKC-B008
Honeywell	Honeywell	GKN	HP-FEO-V1-GKN-B008
Pilz	PILZ	PSENme2	HP-FEO-V1-PSENME2-B008
PIIZ		PSENme3	HP-FEO-V1-PSENME3-B008
	S SCHMERSAL	AZ15	HP-FEO-V1-AZ15-B008
		AZ16	HP-FEO-V1-AZ16-B008
Schmersal		AZM161	HP-FEO-V1-AZM161-B009
		AZ16	HP-FEO-V1-EX-AZ16-B008
		AZM161	HP-FEO-V1-EX-AZM161-B009
Sick		i16	HP-FEO-V1-i16-B008
SICK	SICK	i17	HP-FEO-V1-i17-B008
Siemens	SIEMENS	3SE22	HP-FEO-V1-3SE2-B008

manipulation protection. The retaining plate system BRÜHL-HP-F® can be combined easily with safety switches of build 2 (with or without safety holding-shut device).



▶ We supply the attachment system



You will receive a precisely fitting attachment system for your safety switch.

Explanation of attachment situation abbreviations: F = wing door,

FEO = wing door opening inwards

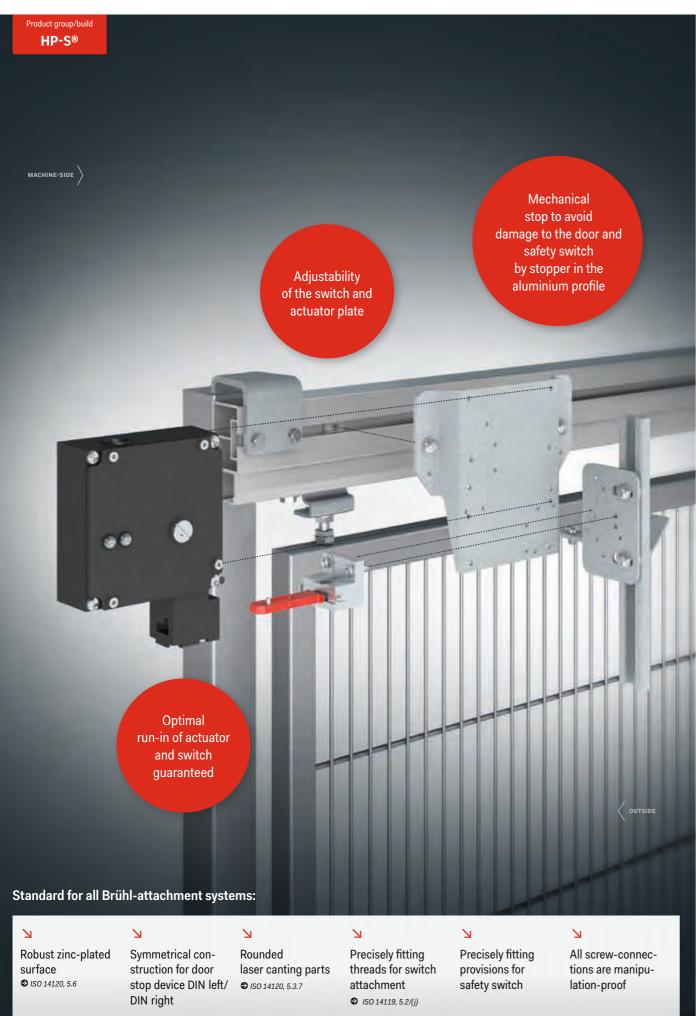
• Safety switches are <u>not</u> enclosed.

• Screws for switch attachments are not enclosed. Cf. EN ISO 14119, 7.2 c and table 3.

- Attachment elements can only be released with tools. Cf. EN ISO 14119, 52 (a).
- See combination overview on p. 185.



to match: Retaining plate system BRÜHL-HP-F® for wing doors with matching provision.



Retaining plate system BRÜHL-HP-S® for sliding doors

The retaining plate system BRÜHL-HP-S® is supplemented with a handle set or handle according to the access comfort and can be used for doors attached on the left or right. A mechanical stop in the aluminium profile avoids damage to the safety switch and actuator. The position of the safety switches depends on the door build and

safety switch: e.g. Euchner TZ.⁰

DIN EN ISO 14119



▶ We supply the attachment system to match: Retaining plate system BRÜHLing provision.

Overview of the retaining plate system BRÜHL-HP-S® for sliding doors

Manufacturer		Switch assembly	Item no.	Manufacturer		Switch assembly	ltem no.
		SK	HP-S-V3-SK-B053	_		AZ15	HP-S-V3-AZ15-B053
.		SKC	HP-S-V3-SKC-B053	-		AZ16	HP-S-V3-AZ16-B053
Bernstein		SLK+ENK	HP-S-V3-SLK+ENK-B045	-		AZ17	HP-S-V3-AZ17-B058
		SLK	HP-S-V3-SLK-B012	- Schmersal	S SCHMERSAL	AZM161	HP-S-V3-AZM161-B039
Comitronic-				Schmersal	3 SCHIICHSHL	AZM170	HP-S-V3-AZM170-B039
BTI		AMX	HP-S-V6-AMX-B070			BNS16	HP-S-V3-BNS16-B053
		NZ	HP-S-V3-NZ-B037	-		BZ16	HP-S-V3-BZ16-B053
		STA	HP-S-V3-STA-B014	-		AZM400	HP-S-V3-AZM400-B086
		STP	HP-S-V3-STP-B014			XCS-A	HP-S-V3-XCS-A-B037
Euchner	EUCHNER	ТР	HP-S-V3-TP-B014	-	Telemecanique Sensors	XCS-B	HP-S-V3-XCS-B-B037
		TZ	HP-S-V3-TZ-B031	-		XCS-C	HP-S-V3-XCS-C-B037
		CET	HP-S-V5-CET-B050	Teleme-		XCS-E	HP-S-V3-XCS-E-B031
		CES	HP-S-V6-CES-B070	- canique Sensors		XCS-PA	HP-S-V6-XCS-PA-B053
	Heneral	GKN	HP-S-V3-GKN-B053	_		XCS-PA	HP-S-V6-XCS-PA-B072
Honeywell	Honeywell	GKS	HP-S-V3-GKS-B014			XCS-TA	HP-S-V3-XCS-TA-B053
Jokab Safety		EDEN	HP-S-V6-EDEN-B070	-		XCS-TE	HP-S-V3-XCS-TE-B031
Leuze	A Leuze electronic	L200	HP-S-V3-L200-B014			i10	HP-S-V3-i10-B014
electronic	4 Leuze electronic	S20	HP-S-V3-S20-B058	-		i12	HP-S-V3-i12-B058
Omron	OMRON	D4NS	HP-S-V3-D4NS-B058	Sick	SICK	i16	HP-S-V3-i16-B053
Electronics	enneen			-		i17	HP-S-V3-i17-B053
		PSENme1	HP-S-V3-PSENME1-B012	-		T400-DNA	HP-S-V6-T4000-DNA-B070
		PSENme2	HP-S-V3-PSENME2-B053	-		3SE2	HP-S-V3-3SE2-B053
		PSENme3	HP-S-V3-PSENME3-B053	Siemens	SIEMENS	3SE5	HP-S-V3-3SE5-B010
Pilz	PILZ	PSENslook	HP-S-V4-PSENSL-B041	-		3SE5	HP-S-V3-3SE5-B051
		PSENcs3	HP-S-V6-PSENCS-B070				
		PSENcs4	HP-S-V6-PSENCS-B070				
		PSENma1	HP-S-V6-PSENMA-B070				
		PSENma2	HP-S-V6-PSENMA-B070	-	-		
Rockwell Automation		440G-T 440K	HP-S-V6-440G-T-B072	and the second second		1	

Explanation of attachment situation abbreviations: S = sliding door

• Safety switches are not enclosed.

O Screws for switch attachments are not enclosed.

Cf. EN ISO 14119, 7.2 c and table 3.

• Attachment elements can only be released with tools. Cf. EN ISO 14119, 52 (a).

See combination overview on p. 185.

wing availability. The retaining plate system BRÜHL-HP-S® can be combined easily with safety switches of build 2 (with or without safety holding-shut device).



HP-S® for sliding doors with match-

You will receive a precisely fitting attachment system for your safety switch.

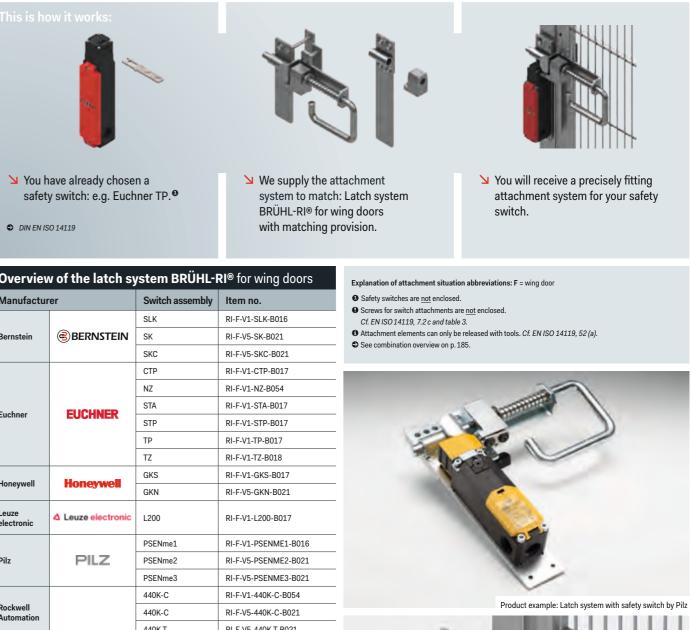


Product example: Retaining plate with safety switch by Euchner



Latch system **BRÜHL-RI**® for wing doors

The latch bolt mechanically guides the actuator when it moves into the safety switch. The BRÜHL-RI® latch system has an integrated protection against falling shut; a pressure spring holds the latch tab in the position "latch closed" without actuation. Aluminium plugs serve manipulation protection. This system is very robust, requires little



Overview of the latch system BRÜHL-RI® for wing doors				
Manufactu	rer	Switch assembly	ltem no.	
		SLK	RI-F-V1-SLK-B016	
Bernstein		SK	RI-F-V5-SK-B021	
		SKC	RI-F-V5-SKC-B021	
Euchner		СТР	RI-F-V1-CTP-B017	
		NZ	RI-F-V1-NZ-B054	
	FUCUNED	STA	RI-F-V1-STA-B017	
	EUCHNER	STP	RI-F-V1-STP-B017	
		ТР	RI-F-V1-TP-B017	
		TZ	RI-F-V1-TZ-B018	
Henergun	Honorea	GKS	RI-F-V1-GKS-B017	
Honeywell	Honeywell	GKN	RI-F-V5-GKN-B021	
Leuze electronic	△ Leuze electronic	L200	RI-F-V1-L200-B017	
		PSENme1	RI-F-V1-PSENME1-B016	
Pilz	PILZ	PSENme2	RI-F-V5-PSENME2-B021	
		PSENme3	RI-F-V5-PSENME3-B021	
		440K-C	RI-F-V1-440K-C-B054	
Rockwell Automation		440K-C	RI-F-V5-440K-C-B021	
Hatomation		440K-T	RI-F-V5-440K-T-B021	
		AZ15	RI-F-V5-AZ15-B021	
		AZ16	RI-F-V5-AZ16-B021	
	S SCHMERSAL	AZM161	RI-F-V5-AZM161-B022	
Schmersal		AZM190	RI-F-V5-AZM190-B057	
		BNS16	RI-F-V5-BNS16-B021	
		TZK	RI-F-V5-TZK-B057	
Teleme- canique Sensors	Elemecanique Sensors	XCS-E	RI-F-V1-XCS-E-B018	
		i10	RI-F-V1-i10-B017	
Sick	SICK	i16	RI-F-V5-i16-B021	
		i17	RI-F-V5-i17-B021	
Siemens	CIEMENC	3SE5	RI-F-V1-3SE5-B015	
	SIEMENS	3SE2	RI-F-V5-3SE2-B021	

maintenance and cleaning and has proven its worth in the industrial environment for more than 30 years. The attachment system BRÜHL-RI® can be combined easily with safety switches of build 2 (with or without safety holding-shut device).

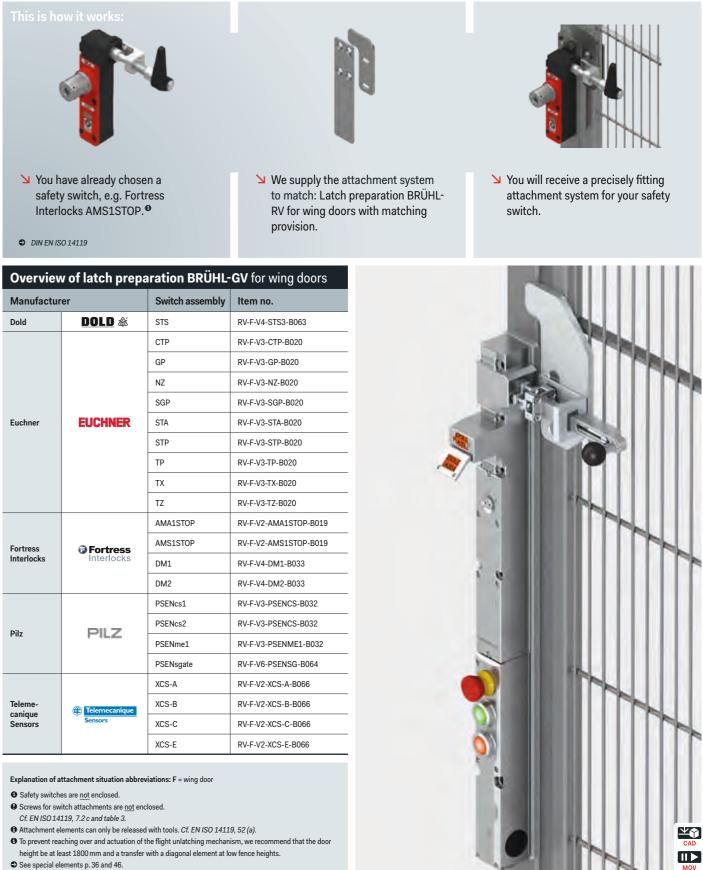


Product example: Latch system with safety switch by Euchner in attachment situation



Latch preparation BRÜHL-RV for wing doors

This system is a preparation for safety switches that is made of a combination of safety switch, attachment plates/elements and latches of many different safety switchgear manufacturers. The BRÜHL-RV-system is used to install the safety switch precisely to ensure long-lived



		ТΧ	RV-F-V3-TX-B020
		TZ	RV-F-V3-TZ-B020
	∂ Fortress Interlocks	AMA1STOP	RV-F-V2-AMA1STOP-B019
Fortress		AMS1STOP	RV-F-V2-AMS1STOP-B019
Interlocks		DM1	RV-F-V4-DM1-B033
		DM2	RV-F-V4-DM2-B033
	PILZ	PSENcs1	RV-F-V3-PSENCS-B032
Pilz		PSENcs2	RV-F-V3-PSENCS-B032
PIIZ		PSENme1	RV-F-V3-PSENME1-B032
		PSENsgate	RV-F-V6-PSENSG-B064
) Telemecanique	XCS-A	RV-F-V2-XCS-A-B066
Teleme-		XCS-B	RV-F-V2-XCS-B-B066
canique Sensors	Sensors	XCS-C	RV-F-V2-XCS-C-B066
		XCS-E	RV-F-V2-XCS-E-B066

See combination overview on p. 185.

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latching function. A high assembly effort is avoided by using standard hole patterns at Brühl wing doors.

Product example: Latch preparation with safety switch by Dold

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FOR SAFETY SWITCI

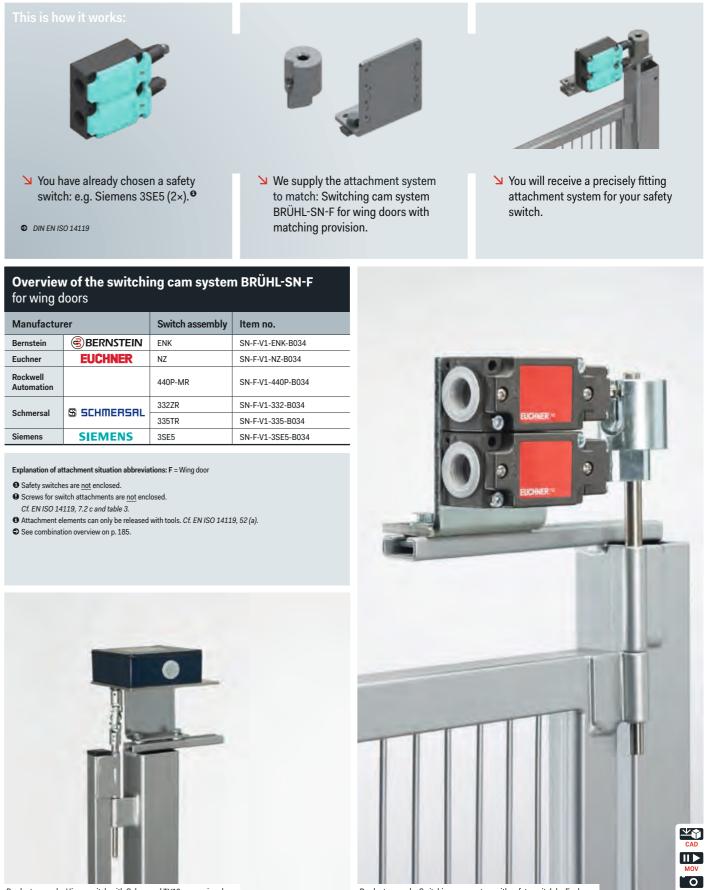
ATTACHMENT SYSTEMS

140 BRÜHL · ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Switching cam system BRÜHL-SN-F for wing doors

The switching cam system BRÜHL-SN-F is used only on pendulum two-channel signal query that can have a positive effect on the Perforand wing doors due to the effective principle. This attachment system mance-Level or the safety category in the scope of risk assessment. is highly beneficial when a very fast system access is desired. It is combined with two roller plunger switches (Build 1) that permit safe



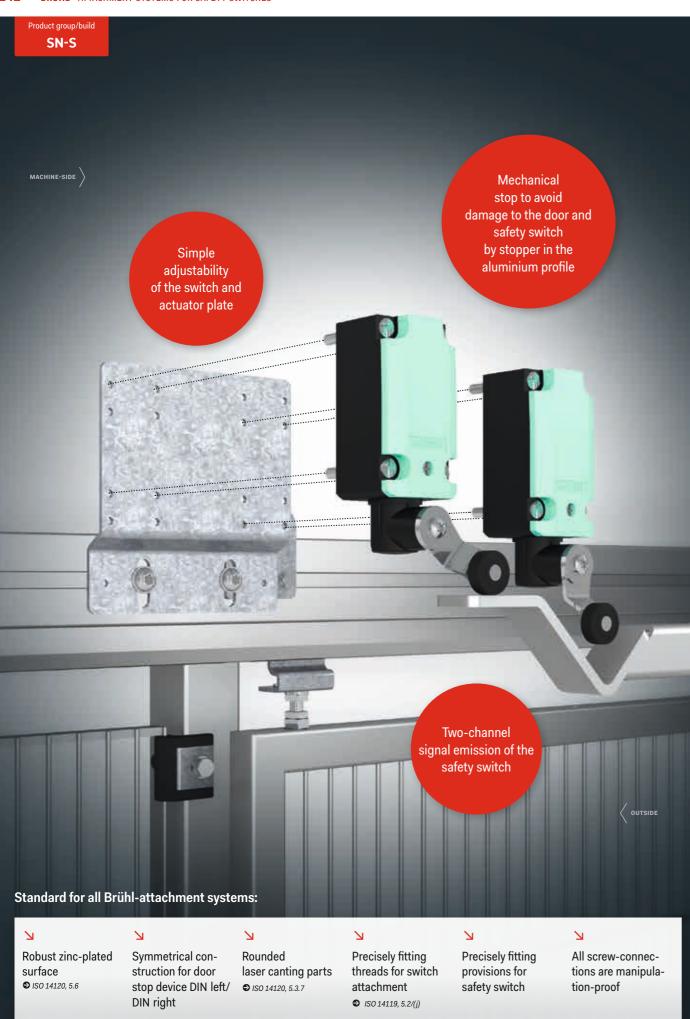
Overview of the switching cam system BRÜHL-SN-F
for wing doors

Manufacturer		Switch assembly	ltem no.
Bernstein		ENK	SN-F-V1-ENK-B034
Euchner	EUCHNER	NZ	SN-F-V1-NZ-B034
Rockwell Automation		440P-MR	SN-F-V1-440P-B034
Schmersal	S SCHMERSAL	332ZR	SN-F-V1-332-B034
Schmersal	g achilichanc	335TR	SN-F-V1-335-B034
Siemens	SIEMENS	3SE5	SN-F-V1-3SE5-B034



Product example: Hinge switch with Schmersal TV10 on a swing door

Product example: Switching cam system with safety switch by Euchner



Switching cam system BRÜHL-SN-S for sliding doors

The attachment panels of the switching cam system BRÜHL-SN-S are cam system across manufacturers and precisely fitting for safe rounded laser-edge parts that are made of robust, zinc-plated steel. two-channel signal query; they can have a positive effect on the The switching cam profile has a powder-coated surface in wing colour. Performance-Level or the safety category in the scope of risk Two roller lever switches (build 1) can be installed on the switching assessment.



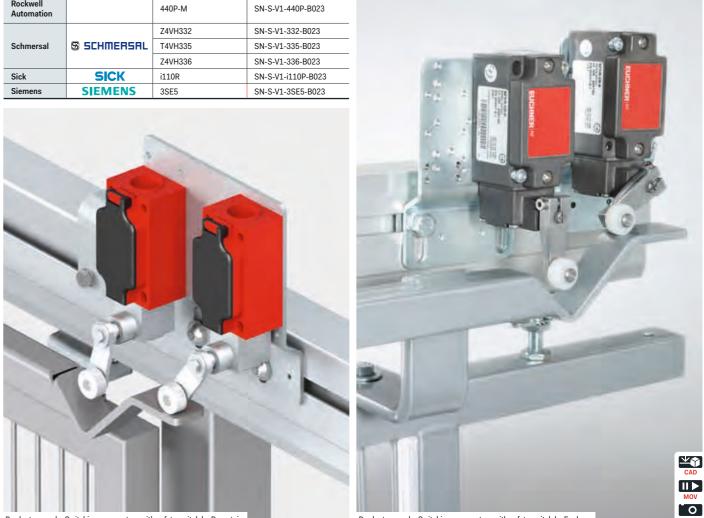
▶ We supply the attachment system to match: Switching cam system BRÜHL-SN-S for sliding doors with matching provision.

DIN EN ISO 14119

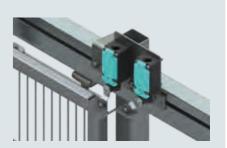
switch: e.g. Siemens 3SE5 (2×).

Overview of the switching cam system BRÜHL-SN-S	
for sliding doors	

Manufacturer		Switch assembly	Item no.	
Bernstein	BERNSTEIN	ENK	SN-S-V1-ENK-B023	
Euchner	EUCHNER	NZ	SN-S-V1-NZ-B023	
Rockwell Automation		440P-M	SN-S-V1-440P-B023	
		Z4VH332	SN-S-V1-332-B023	
Schmersal	S SCHMERSAL	T4VH335	SN-S-V1-335-B023	
		Z4VH336	SN-S-V1-336-B023	
Sick	SICK	i110R	SN-S-V1-i110P-B023	
Siemens	SIEMENS	3SE5	SN-S-V1-3SE5-B023	



Product example: Switching cam system with safety switch by Bernstein



You will receive a precisely fitting attachment system for your safety switch.

Explanation of attachment situation abbreviations: S = sliding door

- Safety switches are <u>not</u> enclosed.
- Screws for switch attachments are not enclosed. Cf. EN ISO 14119, 7.2 c and table 3.
- O Attachment elements can only be released with tools. Cf. EN ISO 14119, 52 (a).
- See combination overview on p. 185.

Product example: Switching cam system with safety switch by Euchner

144 BRÜHL · ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Safety switch preparation BRÜHL-SV

The switch preparation BRÜHL-SV is mostly used in any Brühl-doors when safety switches are prepared precisely fitting in the factory (for quick installation on site). With this system preparation, the safety switch is function-dependent and may take the form of, e.g., hole

This is how it works:	0.0
 You have already chosen a safety switch: e.g. Pilz PSENcode.[®] DIN EN ISO 14119 	We supply the attac match with door ac switch preparation by supporting the p preparation.

Manufacturer		Switch assembly	Item no.	Manufacturer		Switch assembly	ltem no.
ABB		EDEN	SV-F-V5-EDEN-B077	Schmersal	S SCHMERSAL	TV8S-521	SV-F-V3-TV8S-521
	BERNSTEIN	SLK+ENK	SV-F-V4-SLK+ENK-B044			BNS260	SV-F-V5-BNS260-B077
Bernstein		MAK	SV-F-V5-MAK-B077			BNS250	SV-F-V5-BNS250-B077
Euchner	EUCHNER	CES	SV-F-V5-CES-B077				
		CMS	SV-F-V5-CMS-B077	Overview	w of safety swit	ch preparatio	n BRÜHL-SV
		MGB-PN	SV-F-V6-MGB-PN	for wing doors opening inwards			
		SBILOKIR	SV-F-V7-SBILOKIR-B076				
		SBNLOCK	SV-F-V7-SBNLOCK-B076	Manufacturer		Switch assembly	Item no.
Fortress	G Fortress	SBSLOCK	SV-F-V7-SBSLOCK-B076	ABB		EDEN	SV-FEO-V5-EDEN-B077
Interlocks	Interlocks	tGard THE-RX/RZ	SV-F-V7-THE-B084	Bernstein		MAK	SV-FEO-V5-MAK-B077
				Euchner	EUCHNER	CES-A-LNN	SV-FEO-V5-CES-B077
		tGard THH-RX/RZ	SV-F-V7-THH-B084		LOOMALA	CMS-R-B	SV-FEO-V5-CMS-B077
		tGard THN-RX/RZ	SV-F-V7-THN-B084	Leuze	△ Leuze electronic	MC336	SV-FEO-V5-MC3-B077
Leuze electronic	Leuze electronic	MC336	SV-F-V5-MC3-B077	electronic Omron	07000		
Omron	OMRON	F3S-TGR	SV-F-V5-F3S-TGR-B077	Electronics	OMRON	F3S-TGR	SV-FEO-V5-FEO3S-TGR-E
Electronics					Pilz PILZ	PSEN1.1	SV-FEO-V5-PSENMA-B0
	PILZ	PSEN1.1	SV-F-V5-PSENMA-B077			PSEN2.1	SV-FEO-V5-PSENMA-B0
		PSEN2.1	SV-F-V5-PSENMA-B077	Pilz		PSENcode	SV-FEO-V5-PSENCS-B07
Pilz		PSENcode	SV-F-V5-PSENCS-B077			PSENcs3	SV-FEO-V5-PSENCS-B07
		PSENcs3	SV-F-V5-PSENCS-B077			PSENcs4	SV-FEO-V5-PSENCS-B07
		PSENcs4	SV-F-V5-PSENCS-B077			PSENma1.4	SV-FEO-V5-PSENMA-B0
		PSENmag	SV-F-V5-PSENMA-B077			PSENmag	SV-FEO-V5-PSENMA-B0
Rockwell Automation		440N-S SV-F-V5-440N-S-B077	Rockwell		440N-S	SV-FEO-V5-440N-S-B07	
Automation		440N-Z	SV-F-V5-440N-Z-B077	Automation	1	440N-Z	SV-FEO-V5-440N-Z-B077
	S SCHMERSAL	4714104 07000	SV-F-V1-AZM161-STS30-01	Cohressed	S SCHMERSAL	BNS250	SV-FEO-V5-BNS250-B07
		AZM161-STS30	() SV-F-V1-AZM161-STS30-08	Schmersal		BNS250	SV-FEO-V5-BNS250-B07
		AZM415-STS30	SV-F-V1-AZM101-STS30-08 SV-F-V1-AZM415-STS30-01				
				 Explanation of attachment situation abbreviations: FEO = wing door opening inwards, F = wing door O Safety switches are not enclosed. 			
			() SV-F-V1-AZM415-STS30-08				
Schmersal		AZM161-STS30	SV-F-V1-AZIM415-51550-08	Screws for switch attachments are <u>not</u> enclosed. Cf. EN ISO 14119, 7.2 c and table 3.			
			()	• Attachment elements can only be released with tools. Cf. EN ISO 14119, 52 (a).			
			() SV-F-V1-EX-AZM161-STS30-08	• To prevent reaching over and actuation of the flight unlatching mechanism, we recommend that the door being be at least 1800 mm and a transfer with a diagonal element at low force beingsts			
			SV-F-V1-EX-AZM101-STS30-08 SV-F-V1-EX-AZM415-STS30-01	the door height be at least 1800 mm and a transfer with a diagonal element at low fence heights. See special elements p. 36 and 46.			
		AZM415-STS30	()	See combination overview on p. 185.			
			SV-F-V1-EX-AZM415-STS30-08				

pattern adjustment at the post/door wing as preparation of a flight unlatching, special hole pattern and welding substructure adjustment.



achment system to djustment: Safety n BRÜHL-SV e.g. post and/or wing



You will receive a precisely fitting attachment system for your safety switch.





Overroll latch system BRÜHL-UER®

The overroll latch system BRÜHL-UER® prevents pushing through of the wings at folding or double folding wing doors, which permits compliance with the safety distances of the risk and danger assessment. This system is very robust, requires little maintenance and cleaning



Overview of the overroll latch system BRÜHL-UER®

Manufacturer		Switch assembly	ltem no.	
Euchner	EUCHNER	TZ	UER-FR-V1-TZ-B028	
		TZ	UER-FL-V1-TZ-B025	
Schmersal	S SCHMERSAL	MZM100	UER-FL-V2-MZM100-B073	
		MZM100	UER-FR-V2-MZM100-B073	

Explanation of attachment situation abbreviations: FL = wing door DIN left (doors with left attachment) FR = wing door DIN right (doors with right attachment)

• Safety switches are <u>not</u> enclosed.

O Screws for switch attachments are not enclosed.

Cf. EN ISO 14119, 7.2 c and table 3.

• Attachment elements can only be released with tools. Cf. EN ISO 14119, 52 (a).

See combination overview on p. 185.



and has proven its worth in the industrial environment for many years. Combinations are available with many safety switches - Brühl recommends the combination of safety switch and a contact free principle of effect.



You will receive a precisely fitting attachment system for your safety switch.



1.22

4 4 44

Product example: Overroll latch system with safety switch by Schmersal



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