

Product Information

Product Brand: Roto Patio

Patio Lift MVS

Scheme A

Related Products	Roto Patio New product
Application range	Patio Lift lift and slide elements scheme A made of PVC and aluminium.
Technical Details	See Appendix "PI 23 1177 Patio Lift mit MVS.pdf". Vds certificate MVS-B contact element for scheme A in the appendix.
Documentation	Next update Patio Lift IMO_245 and IMO_324.
Availability / Ordering ability	Available to order.

Product Overview

Material No.	EAN no.	Description	PU	Price/Pcs.	Material Si ze	D-MG	Spout Mater ial
2030713	4036263540812	PLT MVS MAGNET HOLDER	1 pc	74,49	2E		
2030824	4036263541413	PLT MVS ADAPTER CPL 2/8.5	1 pc	18,49	2E		
2030719	4036263540829	PLT MVS ADAPTER CPL 3	1 pc	18,49	2E		
2030825	4036263541420	PLT MVS ADAPTER CPL 3/5	1 pc	18,49	2E		
2030826	4036263541437	PLT MVS ADAPTER CPL 4/3.9	1 pc	19,49	2E		
2030693	4036263540775	PLT MVS ADAPTER CPL 5	1 pc	18,49	2E		
2030827	4036263541444	PLT MVS ADAPTER KPL 5/3.9	1 pc	18,49	2E		
2030798	4036263541352	PLT MVS ADAPTER CPL 6	1 pc	18,49	2E		
2030819	4036263541369	PLT MVS ADAPTER CPL 7.5	1 pc	18,49	2E		
2030828	4036263541451	PLT MVS ADAPTER CPL 9.5/5	1 pc	18,49	2E		
2030894	4036263541567	PLT MVS ADAPTER CPL 10	1 pc	18,49	2E		
2030820	4036263541376	PLT MVS ADAPTER CPL 11	1 pc	18,49	2E		
2030821	4036263541383	PLT MVS ADAPTER CPL 12	1 pc	18,49	2E		
2030822	4036263541390	PLT MVS ADAPTER CPL 14.5	1 pc	18,49	2E		
2030829	4036263541468	PLT MVS DRILLING JIG 3.9	1 pc	60,49	2E		
2030830	4036263541475	PLT MVS DRILLING JIG 5.2	1 pc	60,49	2E		
2030831	4036263541482	PLT MVS DRILLING JIG 8.5	1 pc	60,49	2E		
2030832	4036263541499	PLT MVS DRILLING JIG 12.7/22.6	1 pc	60,49	2E		
2030833	4036263541505	PLT MVS DRILLING JIG 12.7/14.6	1 pc	60,49	2E		
2030839	4036263541512	PLT MVS DRILLING JIG 28.1	1 pc	60,49	2E		



Created on 18.08.2023

Modified on 07.02.2024

No. 23 1177

PI 23 1177 Patio Lift diagram A with MVS-contact element VdS B round

Application range:

Patio Lift with MVS-contact element VdS B round for

- PVC
- Alu

The necessary installation space for the MVS parts is check in the Lift profile check, the information and comments of the profile check must be considered.

Technical details:

Patio Lift MVS VdS B is available for diagram A and the derivated diagrams K, G and D. In combination with MVS VdS B it is possible to use the DLO (Desing Locking) and BLO (Basic Locking) as well as the standard and slim bogies.

If the parts are correctly installed, the MVS contact element with the magnetic cam controlled by hardware fulfills the combined opening and locking monitoring according to VdS class B. The locking of the element is only indicated when the Patio Lift element is in its lower position and locked. This means the magnetic cam is more than 50 % in the striker, so the Lift&Slide element is fully closed and locked.

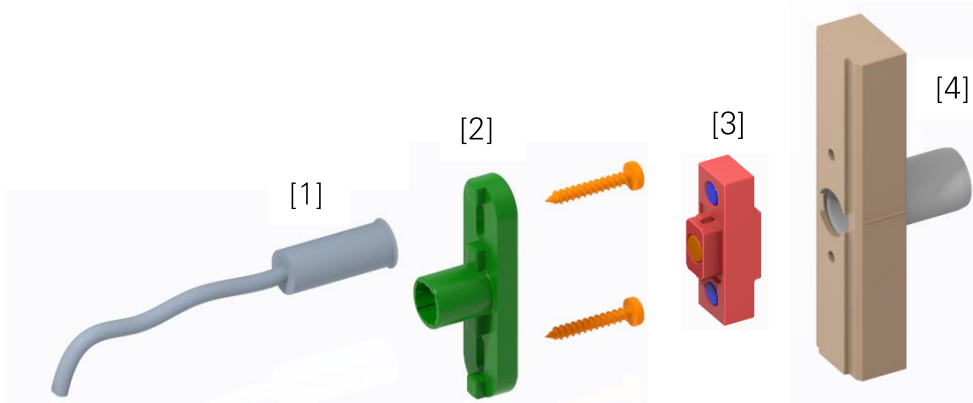
Diagram A

For diagram A the MVS parts are positioned on the espagnolette side and in the frame approximately in the height of the handle. The installation drawings show the installation position of the MVS parts and the use of the drilling jigs.

S23A053-100: Installation position of the MVS parts

S23A053-200: Use of the drilling jigs

Article diagram A



- [1] 858477 / 858478 MVS contact element VdS B round 6m / 10m
- [2] MVS-adapter (*)
- [3] 2030713 MVS-magnet holders
- [4] MVS drilling jig (*)

(*) article number for [2] and [4] see attachment.

Installation and drilling diagram A

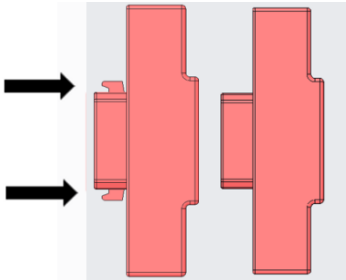
General installation instructions:

- The following Roto document must be considered: Installation instruction IMO_565 for basic information on the MVS contact elements.
- The Product information 23 1177 is a Patio Lift specific additional document.
- The drill holes for the MVS contact element Vds B must be positioned exactly.
- The installation of the contact element into the MVS adapter must be done tool free and by hand.
- Use of mechanical force, e.g., during assembly, could damage the glass body of the reed switch.
- It is not allowed to install ferromagnetic materials in a distance of 20mm on all sides at the level of the contact element or above it.
- Sufficient cable reserve must be stored in the profile for a revision (lay cable loop)
- The magnet can lose its field strength if it breaks due to strong impacts or is exposed to strong heat. This can also be possible if it is moved near to another magnet.
- The connection must be made by trained and qualified personnel.
- Do not switch inductive or capacitive loads. Do not test the MVS contact element with „lamp testers “. Note the connection data from IMO_565.

Installation diagram A

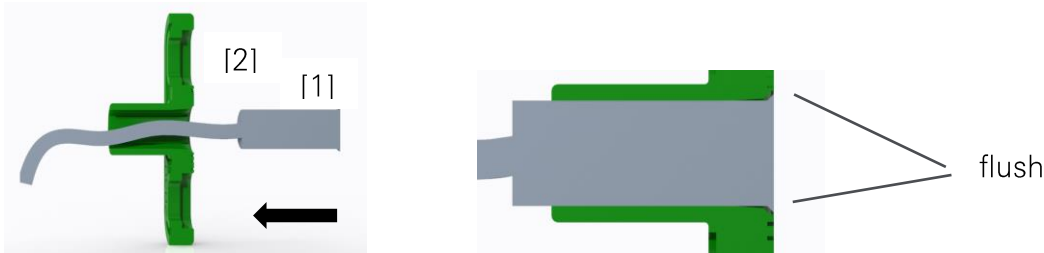
Sash espagnolette side:

1. The MVS magnet holder [3] is insert into a free hole in the connecting rod of the espagnolette above or below of the gearbox. It is held by the magnetic force of two fastening magnets. Depending on the espagnolette design, it is maybe necessary to remove the positioning bars of the MVS magnet holder.

Positioning of the MVS magnet holder				
Please have a look at the installation drawing				
Espagnolette design	Backset	Application range	Above or below the gearbox	remark
Espagnolette for Lift doors	BS27.5 BS37.5	FH>1801	below	(1)
Espagnolette for Lift windows	BS37.5	FH1000-1800	above	(1) (2)
espagnolette BSD25	BS25	FH>1801	above	(2)
(1) When using the milled espagnolettes (height 15.5mm) the milling dimensions for the gearbox changes, see attachment.				
(2) Remove both positioning bars on the MVS magnet holder with a suitable tool				
				

Frame espagnolette side

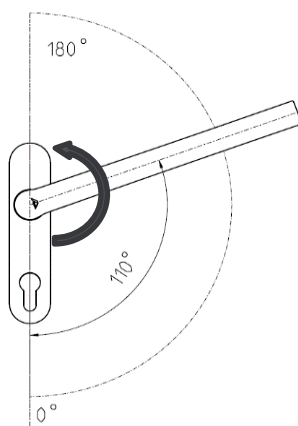
1. Insert MVS-contact element [1] in the MVS adapter [2] until it is flush.

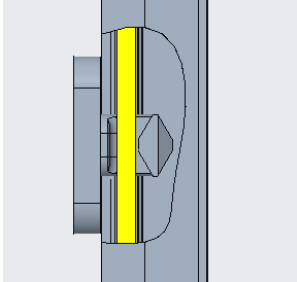
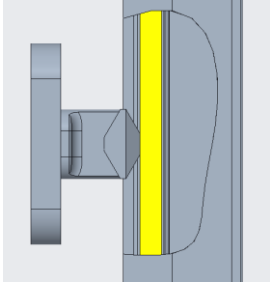


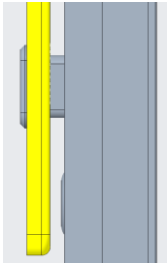
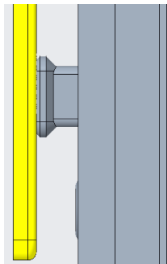
2. Positioning of MVS adapter: For the position of the MVS adapter and the use of the MVS drilling jig, please see installation drawings.
3. The drilling for the MVS adapter is made with the MVS drilling jig [4]
 - 3.1. The drilling holes for the fastening screws are drilled with $\text{Ø}2.5$ mm. The first drilling hole for the MVS adapter is drilled with $\text{Ø}12$ mm.
 - 3.2. In order to enable the adjustment range of the MVS adapter of ± 2.5 mm, a double drill hole $\text{Ø}12$ is drilled by rotating the drilling jig by 180° . The drilling jig is positioned by inserting the $\text{Ø}2.5$ drill into the existing first drilling hole and the second hole $\text{Ø}12$ is drilled. The holes $\text{Ø}12$ must be at least 25mm deep.
 - 3.3. The MVS adapter with the contact element is inserted into the frame and fastened in the middle of the elongated hole with the enclosed stainless-steel screws.
4. Afterwards the correct position of the MVS adapter is checked.

Checking the installation

- After installing the Lift Element and the MVS components, the switch positions – locked and mishandling - must be checked: the test devices 491702 or 891372 Control-Unit contact element could be used for this.
- Important: The contact element is only allowed to report the lock when the locking pin is at least 50% in the locked position. This is corresponding with a handle position of approx. 110° .
- If this is not the case, move the MVS adapter slightly within the given adjustment range and check the correct function again.



Switch positions to be checked Basic Locking BLO			
locked	<ul style="list-style-type: none"> • Sash is in its lower position. • Locking pin is locked behind the connecting rod 	MVS contact element must report the lock	
mishandling	<ul style="list-style-type: none"> • Sash is in its lower position. • Locking pin hit the connecting rod/ is before the connecting rod 	MVS contact element is not allowed to report the lock	

Switch positions to be checked Design Locking DLO			
locked	<ul style="list-style-type: none"> • Sash is in its lower position. • Locking pin is locked behind the DLO striker 	MVS contact element must report the lock	
mishandling	<ul style="list-style-type: none"> • Sash is in its lower position. • Locking pin hit the DLO striker/ is before the DLO striker 	MVS contact element is not allowed to report the lock	

VdS recognition

VdS recognition:

Combined opening and locking monitoring / G 113501 (VdS class B).

EN approval EN-ST-000242:

Safety degree 2 (DIN EN 50131-2-6:2008)

Attachment

Table 1

	Profil	MVS Adapter		Bohrlehre
		BLO	DLO	
Kunststoff	Aluplast HST85 (niedrige Laufschiene) S20A2733-801_E4	6	6	12.7/22.6
	Aluplast HST85 (hohe Laufschiene) S20A2733-101_E4	6	6	12.7/22.6
	Deceuninck HS76 S20A2733-701_E3	12	14.5	12.7/22.6
	Deceuninck HST 476 Deceuninck Monorail LS S20A2733-301_E2	11	10	12.7/14.6
	DECCO HST 83 Panoramico S20A2578-001_E3	6	5	12.7/22.6
	DECCO HST100 Standard (niedrige Laufschiene) S20A2578-201_E2	6	5	12.7/22.6
	DECCO HST100 Standard (hohe Laufschiene) S20A2578-101_E4	6	5	12.7/22.6
	Kömmerling PremiDoor 70 S20A2733-601_E3	5	5	12.7/22.6
	Kömmerling PremiDoor 76 S20A2733-401_E2	5	5	28.1
	Kömmerling PremiDoor 88 S20A2733-501_E3	5	5	28.1
	Schüco Easy Slide S21A049-001_E3	3	7.5	12.7/22.6
	Schüco LivingSlide S21A049-201_E2	6	5	28.1
	VEKAMOTION 82 S20A2464-100_E5	3	11	28.1
	VEKASLIDE 70 S20A2733-001_E2	6	12	12.7/14.6
	VEKASLIDE 82 S20A2913-001_E2	6	12	12.7/14.6

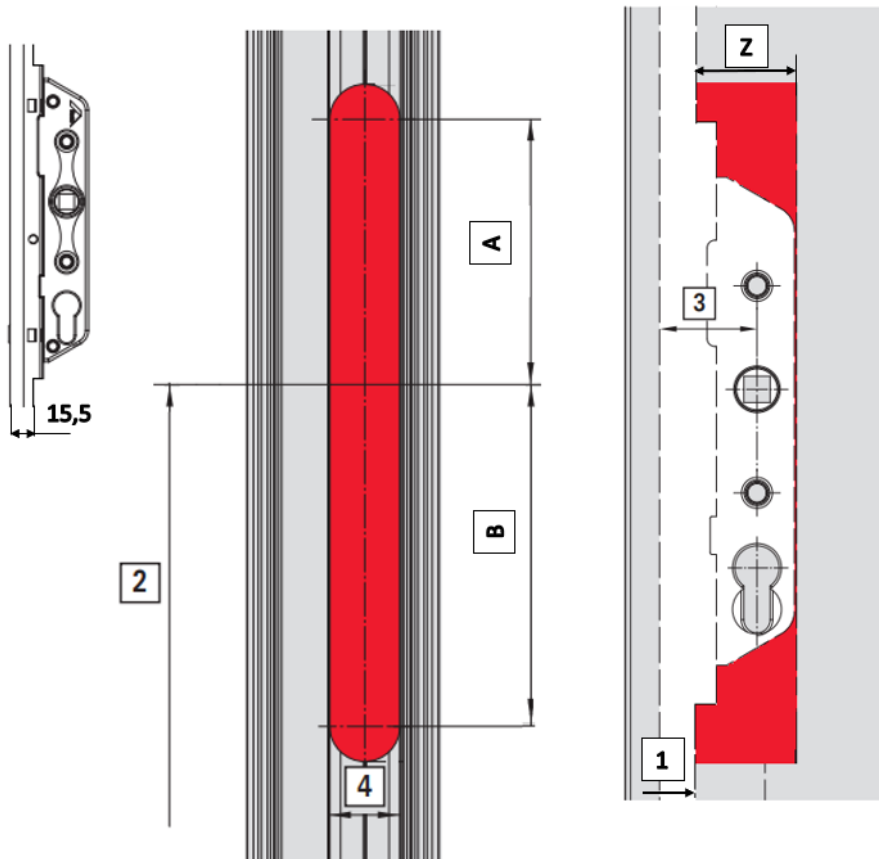
Aluminium	Aluprof_MB_77 std s20a2150-101	5/3.9	13/3	3.9
	Aluprof_MB_77 slim s20a2150-001	5/3.9	4/3.9	3.9
	Gutmann SC125 s20a2646-001_E4	7.5	7.5	12.7/22.6
	Gutmann SC115 Flügel 214072 s21a2565-001_E2	2/8.5	-	8.5
	Gutmann SC115 Flügel 221276 s21a2626-001_E4			
	Pontio_SL_1600_TT s20a2187-001_E1	3/5	9.5/5	5.2

Table 2

MVS-Adapter	
Ausführung	Artikel-Nr
2/8.5	2030824
3	2030719
3/5	2030825
4/3.9	2030826
5	2030693
5/3.9	2030827
6	2030798
7.5	2030819
9.5/5	2030828
10	2030894
11	2030820
12	2030821
13/3	2030823
14.5	2030822

MVS-Bohrlehre	
Ausführung	Artikel-Nr
3.9	2030829
5.2	2030830
8.5	2030831
12.7/22.6	2030832
12.7/14.6	2030833
28.1	2030839

Milled Espagnolettes (15.5mm) BS37.5



[1] supporting surface hardware.

[2] handle height

[3] backset BS

[4] groove width without drilling protection = 22, with drilling protection = 24

Milling dimension gearbox with MVS-magnet holder:

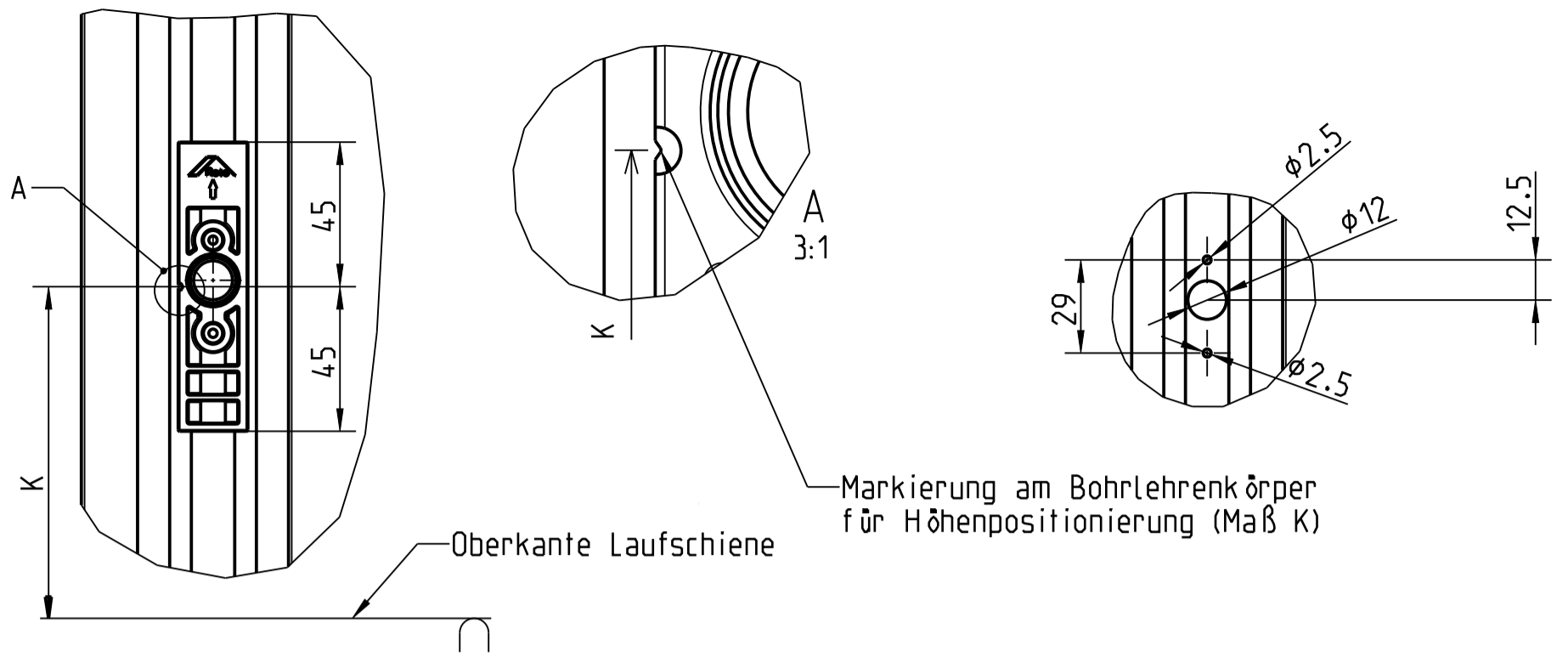
MVS-magnet holder **above** gearbox:

A = 136, B = 107, Z = 39

MVS-magnet holder **below** gearbox:

A = 103, B = 200, Z = 39

①

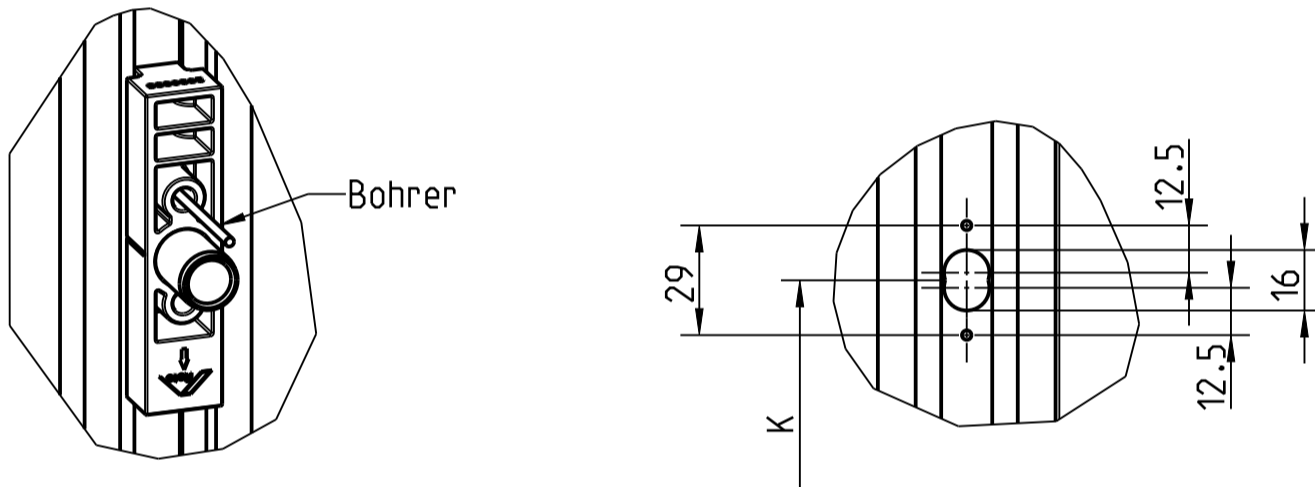


Bohrlehre positionieren (Maß K)

↑ Markierung nach oben

2x Bohrungen $\phi 2.5\text{mm}$ und erste Bohrung $\phi 12\text{mm}$ bohren

②

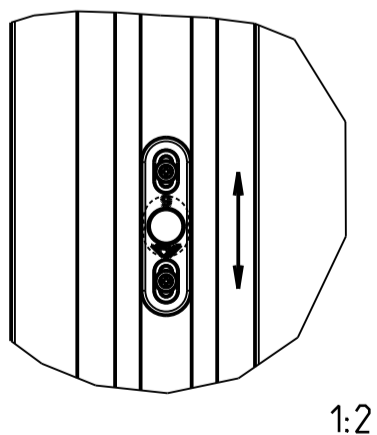


Bohrlehre um 180° drehen

Bohrlehre positionieren (Bohrer $\phi 2.5\text{mm}$ in vorhandene Bohrung stecken)

zweite, versetzte Bohrung $\phi 12\text{mm}$ bohren

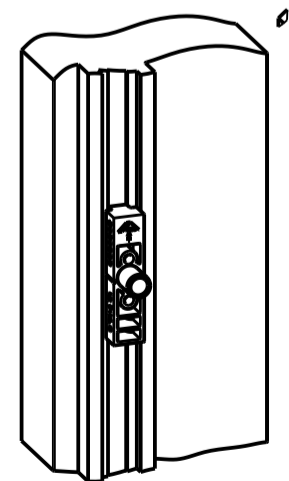
③



MVS_Adapter mit eingestecktem MVS_Kontaktelement montieren, die beiliegenden Edelstahlschrauben dazu mittig in den Langlöchern leicht anziehen

Schaltstellungen überprüfen, eventuell justieren ($\pm 2.5\text{mm}$)

festschrauben



Einbauzeichnung
MVS Schema A

S23A053-200 E2

Anerkennung Approval



von Bauteilen und Systemen of Components and Systems

Inhaber der Anerkennung / Holder of the Approval

Roto Frank
Fenster- und Türtechnologie GmbH
Wilhelm-Frank-Platz 1
70771 Leinfelden-Echterdingen

Anerkennungs-Nr. / Approval No.	Anzahl der Seiten / No. of pages	gültig vom [TT.MM.JJJJ] / valid from [dd.mm.yyyy]	gültig bis [TT.MM.JJJJ] / valid until [dd.mm.yyyy]
G 113501	4	05.08.2023	04.08.2027

Gegenstand der Anerkennung / Subject of the Approval

Kombinierte Öffnungs- und Verschlussüberwachung/
Combined opening and locked-state detector
MVS

Verwendung / Use

in Einbruchmeldeanlagen der Klasse B gemäß VdS 2311 sowie
des Sicherheitsgrades 2 gemäß EN 50131-1 /

in Intruder Alarm Systems of class B according to VdS 2311
and of grade 2 according to EN 50131-1

Anerkennungsgrundlagen / Basis of the Approval

VdS 2110:2017-09
VdS 2120:2011-06
VdS 2344:2014-07
EN 50131-2-10:2018

Köln, den 04.08.2023

Dr. Reinermann
Geschäftsführer /
Managing Director

i. V. Grundmann
Leiter der Zertifizierungsstelle /
Head of Certification Body

Die Anerkennung umfasst nur das angegebene Bauteil/System in der zur Prüfung eingereichten Ausführung

- mit den Bestandteilen nach Anlage 1,
- dokumentiert in den technischen Unterlagen nach Anlage 2,
- zur Verwendung in den angegebenen Einrichtungen der Brandschutz- und Sicherheitstechnik.

Bei der Anwendung des Gegenstandes der Anerkennung sind die Hinweise nach Anlage 3 zu beachten.

Das Zertifikat darf nur unverändert und mit sämtlichen Anlagen vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Anerkennung sind der VdS-Zertifizierungsstelle – mitsamt den erforderlichen Unterlagen – unverzüglich zu übermitteln.

This Approval is valid only for the specified component/system as submitted for testing

- together with the parts listed in enclosure 1
- documented in the technical documents according to enclosure 2
- for the use in the specified fire protection and security installations.

When using the subject of the approval the notes of enclosure 3 shall be observed.

This certificate may only be reproduced in its present form without any modifications including all enclosures. All changes of the underlying conditions of this approval shall be reported at once to the VdS certification body including the required documentation.

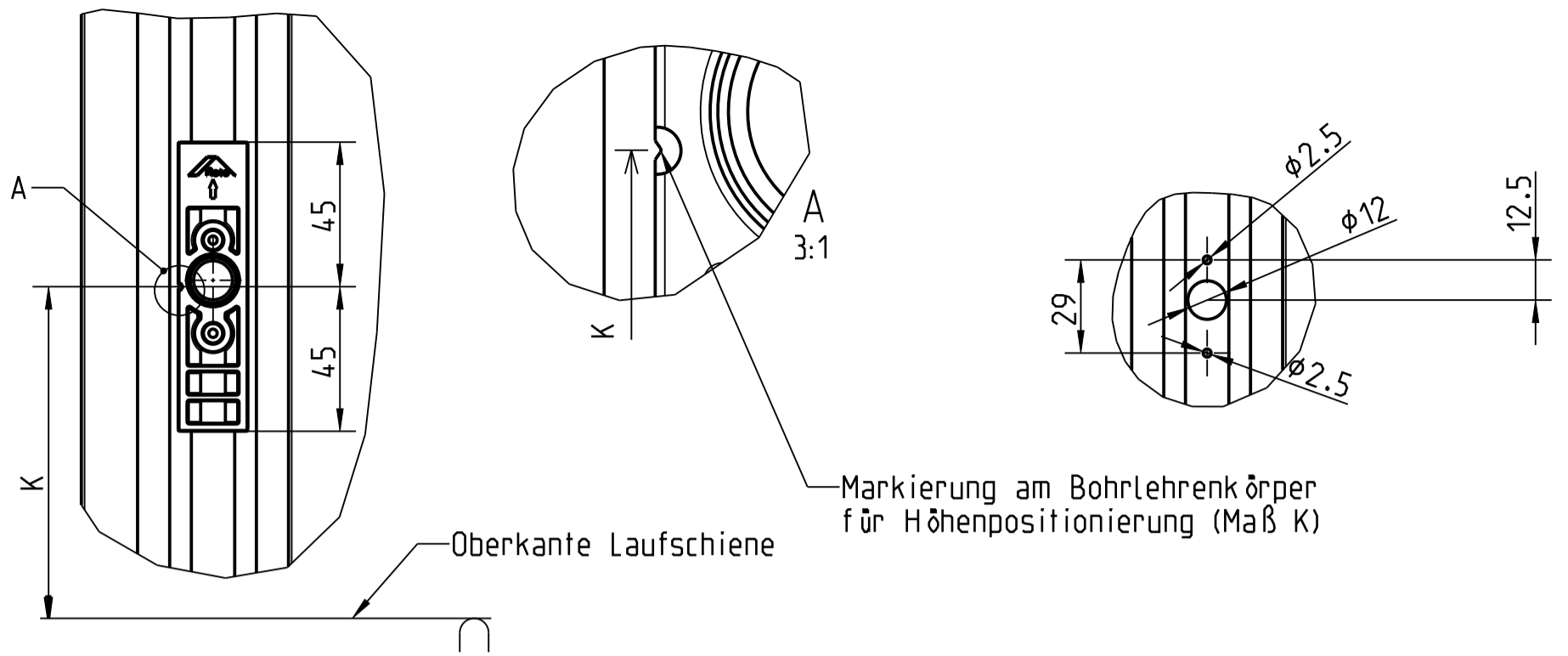
VdS Schadenverhütung GmbH
Amsterdamer Str. 174
D-50735 Köln

Ein Unternehmen des Gesamtverbandes der Deutschen Versicherungswirtschaft e.V. (GDV), durch die DAkkS akkreditiert als Zertifizierungsstelle für Produkte in den Bereichen Brandschutz und Sicherheitstechnik

A company of the German Insurance Association (GDV) accredited by DAkkS as certification body for fire protection and security products



①



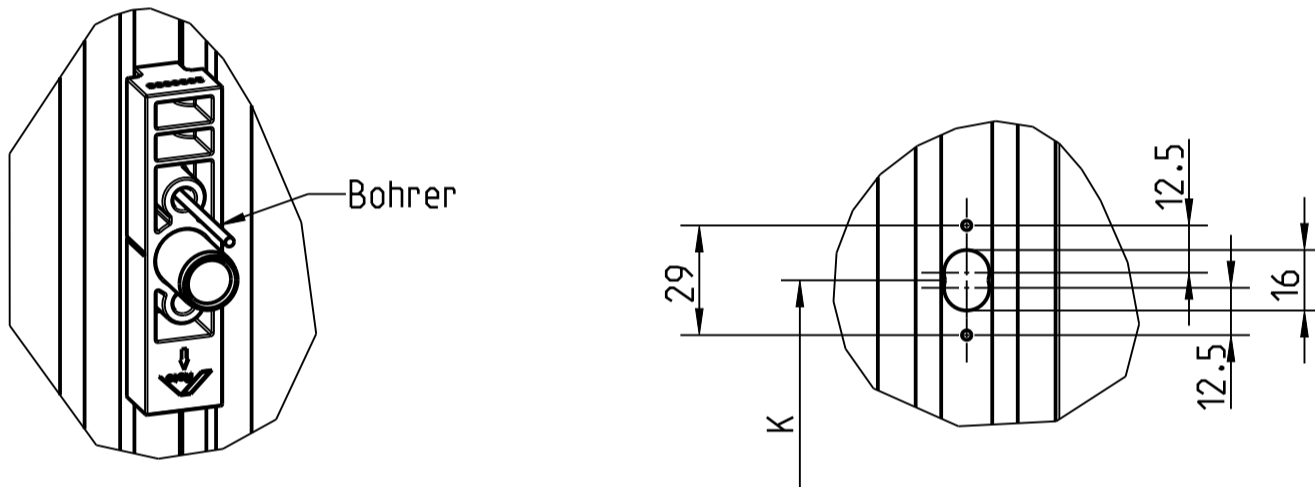
Markierung am Bohrlehrenkörper für Höhenpositionierung (Maß K)

Bohrlehre positionieren (Maß K)

↑ Markierung nach oben

2x Bohrungen $\phi 2.5\text{mm}$ und erste Bohrung $\phi 12\text{mm}$ bohren

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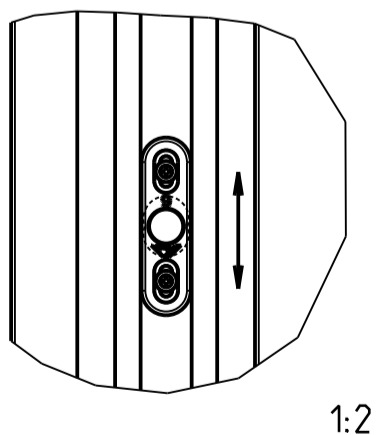


Bohrlehre um 180° drehen

Bohrlehre positionieren (Bohrer $\phi 2.5\text{mm}$ in vorhandene Bohrung stecken)

zweite, versetzte Bohrung $\phi 12\text{mm}$ bohren

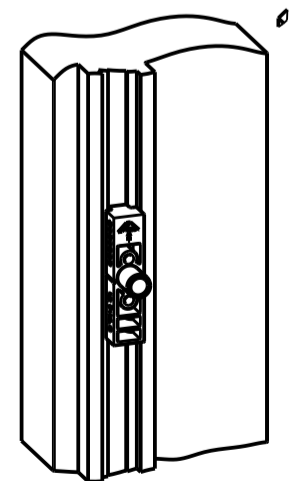
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Schaltstellungen überprüfen, eventuell justieren (+/-2.5mm)

festschrauben



Einbauzeichnung
MVS Schema A

S23A053-200 E2