FIREDOORS

NINZ S.p.A. - corso Trento, 2/A I-38061 ALA (TN) / ITALY <u>www.ninz.it</u> Tel. + 39 0 464 678300 Fax. +39 0 464 679025 info@ninz.it

TWIST BSP

PANIC EXIT DEVICE for emergency exits

A056-GB 5001153/2 - 07/17

			DoP no.	1125-TW-EX-01
	Commercial codes TWIST BSP	item 4201101.042	Website	https://www.ninz.it/it/download/dop
			Classification	3 7 7 B 1 3 2 1 A A
	Name and address of the producer	NINZ S.p.A corso Trento 2/A I-38061 ALA (TN) - ITALIA	2 nd Character - grade 7 3 rd Character - grade 7 4 th Character - grade 8 5 th Character - grade 1 6 th Character - grade 3 7 th Character - grade 2 8 th Character - grade 1 9 th Character - grade A	- Category of use: high frequency - Durability: 200.000 cycles
	Year application trademark	2007		7 - Mass of the door: over 200kg 3 - Suitable for use on fire/smoke rated doors 1 - Safety: suitable for emergency exits
(t	Standard	EN 1125:2008 + EC1:2009		 Highly resistant to corrosion 96h Safety of goods: 1000N
	Certification authority no.	0425		 Protrusion of the exit bar: up to 150mm Activation type: push bar Suitable for 1 or 2 leaved door
	CE certification no.	0425-CPR-001228	doors up to 1350x2880r	the leaf or for the active (first opening) leaf of two-leaved mm/leaf in size, a mass of up to 300 kg/leaf, mounted a resistant up to El ₂ 120 - REI120 and smoke proof. : 100mm.

SYMBOLS EMPLOYED



CAUTION

Indicates a danger that threatens people and/or material goods. Failure to observe the warnings indicated by this symbol may have serious consequences, such as personal injury and property damage.



ATTENTION

Indicates a danger that threatens material goods. Failure to observe the warnings indicated by this symbol may result in damage to material goods.



Warnings related to important technical aspects.

PRODUCT DESCRIPTION

Panic bar for one-leaved doors or for the active leaf of two-leaved doors located at emergency exits and activated by push-bars. Composed of galvanized steel controls, black plastic casing and lever, horizontal aluminium bar, fixed external doorknob and nickel-plated brass cylinder with three keys.

This product does not contain or release any hazardous materials, as per UNI EN standard nr. 1125 appendix ZA.

OPERATION MODE

From the pull side (fixed doorknob side), the door can only be opened by key, which retracts the latch bolt, whereas opening is possible from the push side at any time by pushing on the horizontal bar of the TWIST BSP panic bar.

WARNINGS

The TWIST panic bar activated by means of a horizontal bar is intended for use onto doors installed in escape routes where panic situations could develop.

The safety features of this product are of fundamental importance to ensure its conformity with EN 1125. It is strictly forbidden to introduce any type of modifications apart from those described in these installation instructions.

RECOMMENDATIONS

In order to ensure that the panic bar could provide a high level of safety toward people and appropriate safety level toward goods, it should only be mounted onto doors and doorframes that are in good conditions. The door itself, therefore, should be checked to ensure that it was installed properly and that nothing obstructs its normal movement.

If door rebate sealing have been mounted on the door, make sure they do not inhibit proper functioning of the panic bar.



In case of two-leaved door where both leaves are equipped with panic bar, it is mandatory to check that each leaf opens when its respective panic bar is activated, and that leaves open freely when the bars are activated simultaneously.

The fastening instructions in the present document should be followed scrupulously during installation. Once installation is complete, the installer should give this document to the owner of the activity.

The horizontal bar should be installed in a way that maximizes its useable length.

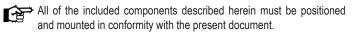
For securing the door in the closed position, do not employ any other latching devices than those specified in the present document. This does not preclude the installation of automatic closing devices.

Different external access devices than those found on the list of certified components on pages 4/4 are considered unacceptable.

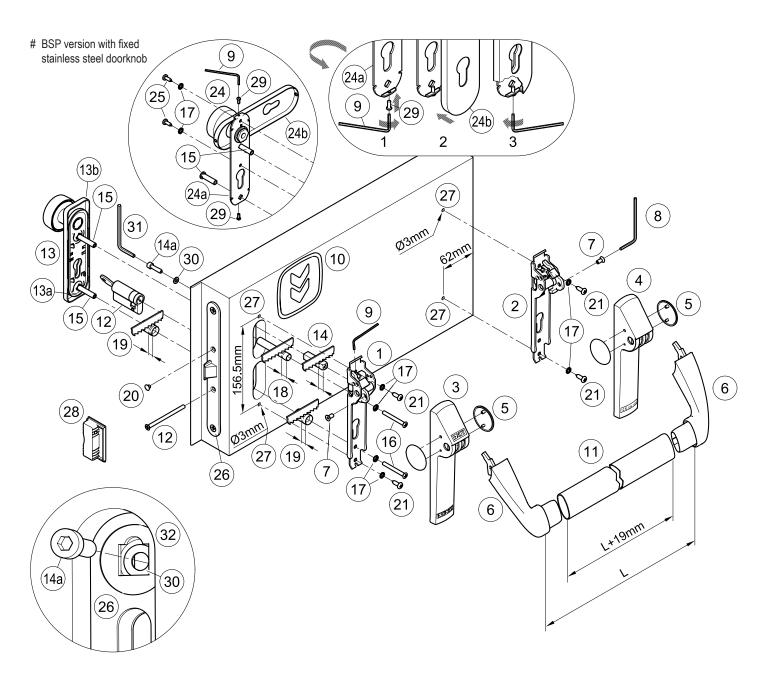
The TWIST panic bar is also designed for installation on hollow metal doors with an internal cell structure.

If a door closer is needed to return the door to the closed position, care should be taken not to make the opening step more difficult for children, the elderly and the disabled.

A pictogram (arrow) should be positioned immediately above the horizontal bar on the internal side of the door.

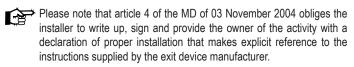


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CONTENTS OF THE TWIST BSP PANIC BAR PACKAGE

position	pcs.	description	position	pcs.	description
1, 2	01	Twist/Exus mechanism assembly	17	06	Toothed washer (# 8 pcs. for stainless steel version)
3, 4, 5	01	Twist/Exus LP carter set with plugs	18	01	Ø10,3x60,6mm spacer
6	01	Twist set carrier arms	19	02	Ø15,0x23,5mm spacer
7	02	M5x10mm hex socket countersunk screw	20	01	Black cap hole Ø8,8mm
8	01	S3 hex key	21	04	Pan head self tapping screw Ø4,8x16mm
9	01	S2 hex key	# 24, 24a, 24b	01	Fix doorknob with stainless steel cover plate and
10	01	Adhesive pictogram (green arrow)			galvanized steel installation plate
11	01	Horizontal bar in anodized aluminium	# 25	02	Pan head self tapping screw Ø4,2x13mm
12	01	Standard nickel-plated half cylinder with three keys	# 29	02	M3x8mm pan head screw
		and fastening screw	30	01	Washer
13, 13a, 13b	01	Fix doorknob with black plastic cover plate and	31	01	S4 hex key
		galvanized steel installation plate			
14, 14a	01	9x9x40mm threaded square spindle with M5x20mm	-	01	A034 hole-drilling template
		hex socket screw	-	01	Twist BSP panic bar installation instructions
15	02	M5 threaded insert			
16	02	M5 countersunk pan head screw			
		·			ck (26) and the respective strike box (counterstrike) (28)



TOOLS REQUIRED

 $\label{eq:metric} Medium-sized \ Philips-head \ screwdriver \ or \ electric \ screwdriver, \ electric \ drill \ with \ \varnothing 2 \ and \ \varnothing 3 \ mm \ drill \ bit for \ steel, \ fine-toothed \ hack-saw \ and \ hack-saw \ for \ aluminium.$

are delivered already mounted on the door!

IMPORTANT

- Installation should be carried out by gualified personnel only and in strict conformity with the instructions supplied.
- For a correct installation all supplied components must be used, including spacers and toothed washers.



- No variations are allowed, and only components indicated in the package contents may be used.

- Given its purpose, the Twist BSP panic bar should be mounted on the pushside of the door.
- Before proceeding with installation, check the package contents to ensure that no pieces are missing.
- Check if the door is equipped with the panic safe lock.
- Check the type of doorknob to apply and follow the specific instructions.
- Any different installation configuration from that illustrated on page 2/4 is not allowed

INSTALLATION

- Insert the half cylinder (12) and fasten it temporarily with the screw (12), then remove the key.
- Adjust the plastic spacers (18 and 19) to the thickness of the leaf so that they do not protrude from the surface.
- Adjust the threaded square spindle (17) to the thickness of the leaf so that it protrudes 11±1mm from the door surface; be careful to cut the bevelled side.
- Insert the washer (30) over the square hole of the panic safe lock (26), from the pull-side of the door, as showed in drawing (32). Insert the M5x20mm screw (14a) over the washer (30) and screw it at the square spindle (14), using the S4 hex wrench (31). Make sure that washer and square spindle are correctly inserted over the square holes before tighten the screw (14a).
- In case of stainless steel doorknob (24), screw onto installation plate (24a), the screws (29), just enough to insert the cover plate (24b). Insert the threaded inserts (15) in the installation plate of the doorknob, making sure it is well-centred.
- Insert the two spacers (18 and 19) over the threaded inserts (15) and apply the doorknob on the pull-side of the door, being careful to center the inserts over their respective holes.
- Apply the operating mechanism (1) to the lock side (push-side of the door) after inserting the screws (16), toothed washers (17) and spacer (19). Center the square spindle and screws, starting the screws by hand before fastening them with the screwdriver.
- Use the template to drill the holes (27) with the Ø3mm drill bit, checking the level. If holes are already present, drill them again for the internal reinforcement.
- Fasten the mechanism (1) even more securely with the self-tapping screws Ø4,8x16mm (21) and their toothed washers (17).
- Fix the square spindle (14) at the operating mechanism (1), using the S2 hex wrench (9).
- Fasten the mechanism (2) of the panic bar at hinged side, using the selftapping screws Ø4,8x16mm (21) and their toothed washers (17).
- Put the plastic carter with "EXIT" wording (3) on the operating mechanism (1) and the other one (4) on the hinged side mechanism (2), snapping them on manually.
- Apply the carrier arms (6) and fasten them with the dedicated screws (7), tightening them securely with the included S3 wrench (8).
- Make a precise "L" measurement, cut the aluminium bar (11) adding 19mm and remove the burrs from the cut edge. Remove one carrier arm, attach the bar and re-fasten the entire assembly.
- Apply the plugs (5).
- Finish fastening the half cylinder (12), insert the little cap hole (20) in the open hole of the panic safe lock (26).



- Push the Twist BSP panic bar at any point along the horizontal bar, checking to ensure that the latch bolt opens easily and fully. Use the same method to check the external side, using the key to retract the latch bolt. Test the door in both open and closed positions, and if necessary file down the plastic strike box (28) of one-leaved doors, or the panic safe lock for inactive leaf of two-leaved doors.

- In case of stainless steel doorknob (24), it is also necessary to fasten the installation plate (24a) using the self-tapping screws Ø4,2x13mm (25) and their toothed washers (17) after drilling holes in the metal panel with the Ø2mm drill bit. Insert the cover plate (24b) onto installation plate (drw. 2). Using the S2 hex key (9), unscrew the screws (29) until the cover become fixed, avoiding any deformation (drw. 3).
- Apply the pictogram (10) with the green arrow on the internal surface of the door, just above the horizontal bar.



- Lastly, use a dynamometer to measure the force required on the horizontal bar to release the lock. Record this force measurement in the present document.

USE

- Ensure that the door always opens easily.
- Avoid unnecessary strains on or handling onto doorknob and exit bar.
- Protect the panic bar from external atmospheric agents.
- Ensure that nothing hinders the free movement of the horizontal bar.
- Do not paint the lock.
- Use the bar properly, do not pull it in the wrong direction.
- Do not leave the key in the lock.

- Make sure that any damaged or malfunctioning parts are replaced immediately.

MAINTENANCE

To ensure that door usage conforms with regulations, the following maintenance checks should be carried out at least once a month:

- Confirm that all of the installed components correspond with those listed in the present instructions and that no other latching devices than those originally installed have been added to the door.
- Inspect and activate the panic bar to verify that all of its components are in satisfactory operational condition.
- Use a dynamometer to confirm that the release force shows no significant differences from the forces recorded at the time of installation.

- Check whether all screws are fully tightened, tightening any that may have loosened.

- Check whether panic bar and key can be moved with minimal effort, and that the latch bolt of the lock retreats from the strike box without offering resistance. If the door has become difficult to open due to friction, the resistance can be reduced by filing the strike box down to the appropriate height.
- Activate the Twist BSP panic bar at both ends of the horizontal bar, checking to ensure full retraction of the latch bolt in both cases.
- Ensure that the latch bolt exits completely when the horizontal bar is released.
- Check the horizontal bar and replace it if any damage or deformities are detected.

- Check whether the inserts and strike boxes are blocked in any way and eliminate any obstructions.

- This product requires no special maintenance. Grease spray should be used to lubricate the internal workings of the lock and panic bar on a regular basis - the latter has a hole on its carter for this purpose, located below the carrier arms.
- For normal cleaning use mild detergents.
- + Any adjustments that become necessary must be carried out by qualified personnel using original NINZ replacement parts.
 - The owner of the activity is responsible for keeping the declaration of correct installation on file, conducting proper panic bar maintenance in accordance with all of the manufacturer's maintenance guidelines, keeping maintenance and check-up records and preserving the present document.

CE		
0425		
	ICIM	
	ICIM S.p.A Identification number: 0425 Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI) - ITALY	
	Certificato di costanza delle prestazioni	
	Certificate of constancy of performance	
	Certificato N. Certificate No. 0425 - CPR - 001228	
	In conformità al Regularizzio 355/011 EU del Patramento Europone dei di consigni del a mazzo 2011. Planguiamento Prodotti da Colottoriano e 1001, junidio ordinario e la cipica la preferiora accionaziona. In complence with Regularizzio 355/011 EU of the European Parlamenta and of the Council of B March 2011 (the Construction Producta Centerfactoria or CPP), tai ce contrateria espetes ha fre consoli e di Santo 2012.	
	Dispositivi per le uscite antipanico azionati mediante una barra orizzontale per l'utilizzo sulle vie di esodo	
	Panic exit devices operated by a horizontal bar, for use on escape routes SERIE / SERIES TWIST, EXUS LP, EXUS LA, EXUS LX	
	MODELLI/MODELS Si veda allegato / See annex	
	Caratteristiche: vedi Allegato / Characteristics: see Annex	
	IMMESSO SUL MERCATO CON IL NOME O IL MARCHIO DI PLACED ON THE MARKET UNDER THE NAME OR TRADE MARK OF	
	NINZ S.p.A.	
	SEDE LEGALE HEAD OFFICE Corso Trento, 2/A - 38061 ALA (TN) - ITALY	
	UNITÁ OPERATIVA PRODUCTION UNIT Corso Trento, 2/A - 38061 ALA (TN) - ITALY	
	Coesto conflicito attabili de tutte le disposizioni riparatanti la vialutazione e la verifica della costanza della prestazione e le prestazioni dicentificato attabili no della lonca. This conflicato attabili della di provisione concoming the assessment and verification el constancy of performance and the performances disectore in Annez X-o the standard	
	EN 1125:2008 + EC1:2009 nell'ambito del sistema 1 di cui al presente certificato vengono applicati e che il controllo di produzione in fabbrica condotto dal produttore è valutato al fine di garantire la	
	under system 1 set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the	
	COSTANZA DELLA PRESTAZIONE DEL PRODOTTO DA COSTRUZIONE CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT	
	Questo conflicto è dato enteso per la prima volta il 1964/2007 e la validità sirio a che la roma annonizzata, il procteto da construzione, interdo ARPO e lo concidero il proviscome nel to statistimente non statucamo modifica significativa, o sino a che non venga sospeso o rittarito dial'organizzano di centificazione notificata la congi sa neltre he harmonizzeti attariato, de construction in tra centificate mesi fina sudo no 1844/2013 dei avita interparato la congi sa neltre he harmonizzeti attariato, de construction product. Per AVCP methodis not e monufacturing conditione in the plant are modified adginificantifi, unless suspendied or withdrawn by the notified product emiliation body (XME). S p. A	
	Il presente Certificato è da ritenersi valido solo se accompagnato dal relativo Allegato / This Certificate /s valid only with the relative Annex	
	V. Or	
	ICIM S.p.A. Direttore Tecnico	
)	EMISSIONE ISSUE	
	22/06/2017	
	ICIM S.p.A Piazza Don Enrico Mapelli, 75 - 20098 Sesto San Giovanni (MI)	

	SPARE PART	S (see exploded	I drawing at page 2/4)
	position	code	description
	1, 2, 3, 4, 5, 6, 7, 8, 10	3102004.001	Twist latch case – black plastic
	1, 2	3105113.001	Twist/Exus assembly mechanism
	3, 4, 5	3105104.001	Twist/Exus LP carter set with
			plugs
	6	3105122.001	Twist set carrier arm
	7, 8	3105026.001	Twist/Exus bag
	11	4204009	Anodized or painted aluminium
			bar set
	13, 13a, 13b, 14, 14a,	4211101.002	Twist/Exus BSP set – black
	15, 16, 17, 18, 19, 20,		plastic
	21, 30, 31		
#	9, 14, 14a, 15, 16, 17,	4211101.022	Twist/Exus BSP set – stainless
	18, 19, 20, 21, 24, 24a,		steel
	24b, 25, 29, 30, 31		Oten dend wielest whether the life of the
	12	4202103.001	Standard nickel-plated half cylinder 40/10 for Proget/Univer thk 60mm
	12	4202103.001	35/10 for Univer thickness 50mm
	12	4202103.002	30/10 for Rever
	26	3201001.016	Panic safe lock to push (AP 16/18)
	28	4212024.001	Set of 10 Proget strike box lock
	28	4212025.001	Set of 10 Univer thk60 strike box lock
	28	4212026.001	Set of 10 Univer thk50 strike box lock
	28	4212027.001	Set of 10 Rever strike box lock

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FOR REPLACEMENTS USE ORIGINAL NINZ REPLACEMENT PARTS FROM ITS FULL CERTIFIED SYSTEM ONLY!

PROPER DISASSEMBLY

When some parts or all of the panic bar needs to be replaced, the general guideline is to reverse the order of the original installation instructions. To replace the lock, all parts of the panic bar in the locking device zone must

be disassembled, including the external doorknob. The lock itself (26) can be removed by unscrewing the two frontal screws.

This operation should be carried out with great care in order not to damage or move the components located inside lock housing!

MAINTENANCE RECORD				
date	description of the intervention	release force checked	operator	
	1 English (1997)			
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These instructions should be given to the owner of the activity, who must preserve them as a record of the maintenance operations carried out on the panic bar.

Certified components for TWIST BSP

Panic exit device:	model "TWIST"
Panic safe lock:	item AP 16/18
Lock strike boxes:	items 2401006, 2401005, 2401015, 2401014
Operating elements:	items BSP, BSP inox

C B