



PRESSKEY







Opening Button Presskey Series

GET CREATIVE DESIGN YOUR OWN BUTTON



PRESSKEY SERIES



The Presskey tactile push buttons are designed for road and rail vehicles. Thanks to their highly advanced characteristics, they are suitable for outdoor applications and thus proven under extreme environmental conditions such as frost, heat, dirt, and humidity. They are not only tested for frequent temperature changes but also resistant to cleaning chemicals.

The button family Presskey with a patented switching principle meets strict electrical and mechanical requirements. The integrated air-pressure compensation system in a one-piece button housing with four-point contact stands for: reliability, anti-self-triggering weather related, temperature independent functionality, consistent low operating force, anti-blocking of switching element, shock resistance, safety operation, durability and low maintenance.

The combination of different switching functions, tactile surfaces, mounting rings, and a large choice of LED colors and pictographs makes the Presskey Button Series the most versatile push button family of TSL-ESCHA. The PK has been used on busses, trams, subways, and high speed trains for more than two decades.



The microcontroller electronics of Presskey buttons offers a high number of functions easy to carry out. Functions include optical and acoustic signaling such as flashing and sound sequences.

BUTTONS FOR Strict requirements



HIGHLIGHTS



ROBUST



Frost-resistant





Protection level IP67



Wear proof



INTERCHANGEABLE



Raised symbols TSI PRM approved



Adjustable sound signals



Adjustable light signals



Additional options
Resistant to cleaning chemicals

HIGHLIGHTS AT A GLANCE

CONSTRUCTION TYPES

To take advantage most effectively of our product features, the housing of the Presskey series is available in several designs:



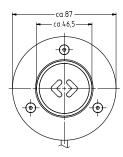
CONSTRUCTION TYPE 1

Function: 1-sided

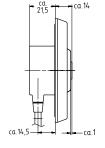
Description: Front-sided assembly with standard mounting ring and visible screws

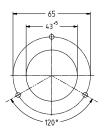
Applications: Wall or boarding door





Ø 65 mm hole-circle





Orientation of the drilling pattern also available as V-variant



CONSTRUCTION TYPE 2

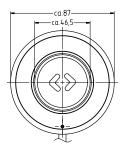
Function: 1-sided

Description: Front-sided assembly with standard mounting ring and additional ring insert

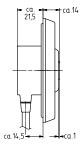
with or without raised Braille to cover the screws

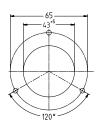
Applications: Wall or boarding door





Ø 65 mm hole-circle





Orientation of the drilling pattern also available as V-variant

Configuration Status "Construction and Mounting Types"









Visible screws Ø65mm hole-circle

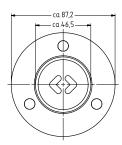
CONSTRUCTION TYPE 3

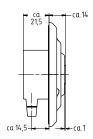
Function: 1-sided

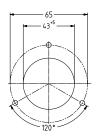
Description: Front-sided assembly with standard mounting ring and additional ring insert

with or without raised Braille to cover the screws

Applications: Wall or boarding door







Orientation of the drilling pattern also available as V-variant





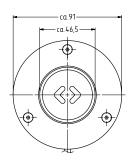
 \emptyset 76 mm hole-circle

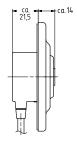
CONSTRUCTION TYPE 4

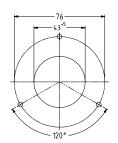
Function: 1-side

Description: Front-sided assembly with \varnothing 76 mm hole-circle with visible screws

Applications: Wall or boarding door







Orientation of the drilling pattern also available as V-variant $\,$

IT'S ALL ABOUT THE DETAILS



CONSTRUCTION TYPE 5

Function: 1-sided

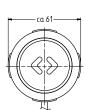
Description: Front-sided assembly with Zentraflex attachment,

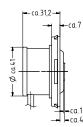
screwsless flush-mounted installation

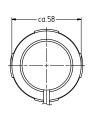
Applications: Wall or boarding door



PKZ Inner wall installation











PK Inner wall installation with fixing claws

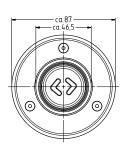
CONSTRUCTION TYPE 6

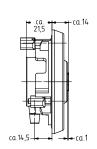
Function: 1-sided

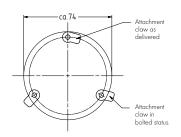
 $\hbox{Description:} \qquad \hbox{Front-sided assembly with $\varnothing 74$mm hole-circle and rear mounting}$

with fixing claws

Applications: Emergency unlocking mounting panel







Orientation of the drilling pattern also available as V-variant

Configuration Status "Construction and Mounting Types"









PK Mounting on glass door

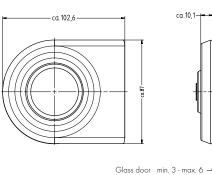
CONSTRUCTION TYPE 7

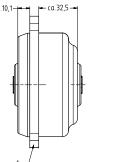
Function: 1-sided

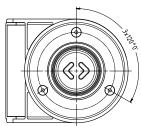
Description: Glass door mounting. Rear button installation with rear housing cover

Applications: Glass door

Adaptation to different door profiles possible, available 0°, 10° and 25° $\,$







Orientation of the drilling pattern also available as V-variant





PK Mounting on glass door

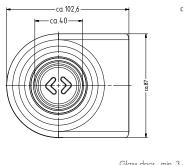
CONSTRUCTION TYPE 8

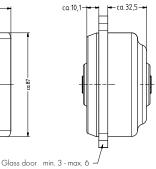
Function: Double-sided

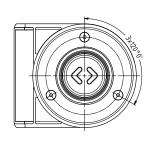
Description: Front button installation with housing cover for glass door

Applications: Glass door

Adaptation to different door profiles possible, available 0°, 10° and 25° $\,$







Orientation of the drilling pattern also available as V-variant

IT'S ALL ABOUT THE DETAILS





RING COVER AND INSERT



RING COVER CONSTRUCTION TYPE 2 AND 8

The ring cover which hides the mounting screws can be additionally customized. There are several colors and texts available and optionally Braille writing.



INSERTS

An insert can be added to the housing model 8. There are several colors and texts available and optionally Braille writing.



RING COVER AND INSERT COLORS

Custom colors available upon request (with an additional cost fee and minimum order of 100pc).







similar yellow RAL1023



similar white RAL9016

Braille for ring cover and insert

We offer the option of Braille writing. Text can be customized.

halt	%° % %	acces	0 0000000
open	00000	izlaz	000000
rampe	%°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	öppna	~%%%°
stop	00000	nyit	000000

Configuration Status "Ring Cover and Insert"



TAKING SHAPE

PICTOGRAPHS

For information and guidance, we present the most commonly used variants. (Further variations available upon request)



B1 Silver background Blue symbol similar RAL 5017



B11 Yellow background similar RAL 1023 Black symbol similar RAL 9017



B2 Blue background similar RAL 5017 White symbol similar RAL 9016



B12 Red background similar RAL 3020 White symbol similar RAL 9016



B4 Silver background Blue symbol similar RAL 5017



B13 Yellow background similar RAL 1023 Black symbol similar RAL 9017



B5 Blue background similar RAL 5017 Silver symbol



B14 Yellow background similar RAL 1023 Black symbol similar RAL 9017



B7 Red background similar RAL 3020 Silver symbol



B16 Red background similar RAL 3020 Silver symbol



B10 Yellow background similar RAL 1023 Black symbol similar RAL 9017



B18 Yellow background similar RAL 1023 Black symbol similar RAL 9017

Configuration Status "Pictographs"







B19 Silver background Green symbol similar RAL 6024



B30 Silver background Green symbol similar RAL 6024



B21 Yellow background similar RAL 1023 Black symbol similar RAL 9017



B31 Green background similar RAL 6024 White symbol similar RAL 9016



B23
Blue background similar RAL 5017
White symbol similar RAL 9016



B33 Green background similar RAL 6024 Silver symbol



B24 Green background similar RAL 6024 White symbol similar RAL 9016



B35 Green background similar RAL 6024 Silver symbol



B25 Silver background Black symbol similar RAL 9004



B36 Green background similar RAL 6024 White symbol similar RAL 9016



B29 Silver background Black symbol similar RAL 9017



B37 Red background similar RAL 3020 White symbol similar RAL 9016



B42 Green background similar RAL 6024 Black symbol similar RAL 9004



B69 Silver background Black symbol similar RAL 9017



B43 Red background similar RAL 3020 Black symbol similar RAL 9004



B75
Blue background similar RAL 5017
White symbol similar RAL 9016
Raised arrows on surface



B49 Silver background White symbol similar RAL 9016



B79 Yellow background similar RAL 1023 Black symbol similar RAL 9017



B52 Blue background similar RAL 5017 White symbol similar RAL 9016



B86 Red background similar RAL 3020 White symbol similar RAL 9016



B54 Red background similar RAL 3020 Silver symbol



B55 Green background similar RAL 6024 Silver symbol

Configuration Status "Pictographs"





TACTILE ACTIVATION SURFACE

The modular design of the PK pictographs and tactile activation surface can be customized. The tactile symbols are subtly raised and in full compliance with EN14752 and TSI-PRM.



Touch surface with discreet elevation without tactile symbol



Touch surface with discreet elevation with tactile symbol (open arrows)



Touch surface with discreet elevation with tactile symbol (close arrows)



Touch surface in flat design

Configuration Status "Tactile Symbols"





In the following pages, examples of light and sound are presented. The different light and sound signals are triggered by the button in different operating conditions.

It is possible to trigger all functions directly on the button or by an external control. Therefore, the Presskey series has three inputs (In1, In2 and In3). With this feature, it is possible to manage functions on demand, for example door out of order, turned-off sound at night, etc.



The possibilities are as diverse as the customer requirements for different applications. The combination of light, sound, and input signals are individually determined as well as the desired functionality of the output (Out).

The following tables give a general impression of the possibilities of Presskey series. Each table stands for an individually programmed button and describes the light and sound of each operating condition.



LIGHT AND SOUND SIGNALS

The Presskey offers a wide variety of light and sound signals. In the following table there is a selection of standard versions. Other variations are available upon request.

LIGHT SIGNALS



LO



L1



L2



L3



L4



L5



L6



L7



L8

SOUND SIGNALS

The maximum sound pressure of the PK is 53dBA at one meter distance.

	AO	Al	A2	А3
Tone frequency:	-	3.5 kHz	3.8 kHz	3.5 kHz
Tone length:	-	0.5 sec.	0.05 sec.	Unlimited
Interval:	-	1-times	0.5 Hz	-
Description:	-	Confirmation	Orientation	Prolonged

Configuration Status "Light Signals"



CONFIGURATION EXAMPLES PROGRAM B 30

INPUT				ENABLE			ACTIVA	ACTIVATED		DESCRIPTION
IN 1	IN 2	IN 3	UB	LED	TONE	OUT	LED	TONE	OUT	
0	0	0	0	LO	AO	-	LO	AO	-	· 6 green and 6 red LEDs
1	1	0	1	L3	AO	-	L3	AO	on	· 6 connection cables · Button activation with UB
1	1	1	1	L3	А3	-	L3	А3	on	Green LEDs are connected via PLC In1
0	0	0	1	LO	AO	-	LO	AO	on	Red LEDs are connected via PLC In2 Audio signals are connected via PLC In 3
0	0	1	0	LO	AO	-	LO	AO	-	
0	0	1	1	LO	А3	-	LO	А3	on	
0	1	0	0	LO	AO	-	LO	AO	-	
0	1	0	1	L2	AO	-	L2	AO	on	
0	1	1	0	LO	AO	-	LO	AO	-	
0	1	1	1	L2	А3	-	L2	А3	on	
1	0	0	0	L1	AO	-	L1	AO	on	
1	0	0	1	L1	AO	-	L1	AO	on	
1	0	1	0	L1	А3	-	L1	А3	on	
1	0	1	1	L1	А3	-	L1	А3	on	
1	1	0	0	L3	AO	-	L3	AO	on	
1	1	1	0	L3	А3	-	L3	А3	on	

PROGRAM B 33

INPUT				ENABLE	ENABLE			TED		DESCRIPTION		
IN 1	IN 2	IN 3	UB	LED	TONE	OUT	LED	TONE	OUT			
=	-	=	0	LO	AO	-	LO	AO	-	6 green and 6 red LEDs 3 connection cables Button activation with UB		
=	=	=	1	L1	AO	=	L3	AO	on			
										· LEDs are internally wired		

PROGRAM B 34

INPUT	ENABLE				ACTIVA	TED		DESCRIPTION		
IN 1	IN 2	IN 3	UB	LED	TONE	OUT	LED	TONE	OUT	
=	=	=	0	LO	AO	-	LO	AO	=	· 6 green and 6 red LEDs
-	-	=	1	L1	AO	-	L3	Al	on	· 3 connection cables · Button activation with UB
										 LEDs are internally wired Audio signals are internally wired



PROGRAM B 04

INPUT				ENABLE	enable activated					DESCRIPTION
IN 1	IN 2	IN 3	UB	LED	TONE	OUT	LED	TONE	OUT	
0	0	-	0	LO	AO	-	LO	AO	-	· 6 green and 6 red LEDs
1	0	-	1	L1	AO	-	L3	A1	on	· 5 connection cables · Button activation with UB
0	1	-	1	L2	AO	-	L2	Al	on	· Green LED's are connected via PLC In
0	0	-	1	LO	AO	-	L2	Al	on	Red LED's are connected via PLC In2 Confirmation tone is internally connected
0	1		0	LO	AO	-	LO	AO	-	,
1	0	=	0	L1	AO	=	L3	Al	on	
1	1	-	0	L3	AO	-	L3	A1	on	
1	1	-	1	L3	AO	=	L3	Al	on	

PROGRAM B 08

INPUT				ENABLE	ENABLE			TED		DESCRIPTION
IN 1	IN 2	IN 3	UB	LED	TONE	OUT	LED	TONE	OUT	
0	-	-	0	LO	AO	-	LO	AO	-	6 green and 6 red LEDs 4 connection cables Button activation with UB Green LEDs are connected via PLC In1 Red LEDs are internally connected
1	=	-	1	L1	AO	-	L3	AO	on	
0	-	-	1	LO	AO	-	L2	AO	on	
1	-	-	0	LO	AO	-	LO	AO	-	

Configuration Status "Button Function"

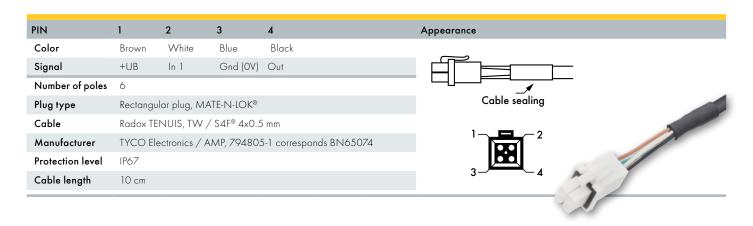


CONNECTIVITY

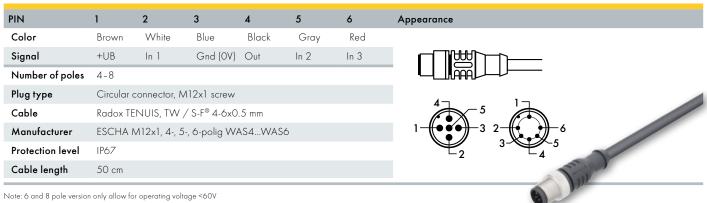
PIN ASSIGNMENT FOR PLUG NO. 65

PIN	1	2	3	4	5	6	Appearance
Color	Brown	White	Blue	Black	Gray	na	
Signal	+UB	In 1	Gnd (OV)	Out	In 2	-	
Number of poles	6						
Plug type	Rectang	ular plug, M	ATE-N-LOK®				Cable sealing
Cable	Radox T	enuis, tw	/ S5F® 5x0.5	mm			-2
Manufacturer	TYCO E	lectronics /	AMP, 794895	5-1			1-3
Protection level	IP67						688
Cable length	10 cm						45-6

PIN ASSIGNMENT FOR PLUG NO. 64

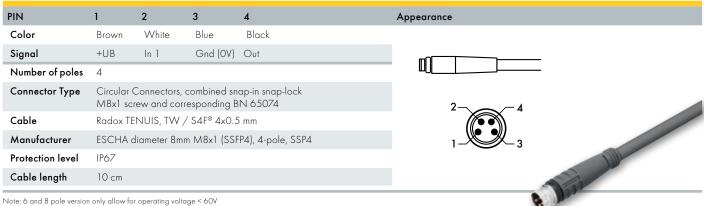


PIN-BELEGUNG FÜR STECKER-NR. 61

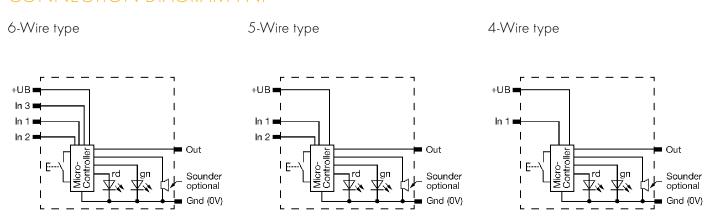




PIN ASSIGNMENT FOR PLUG NO. 60

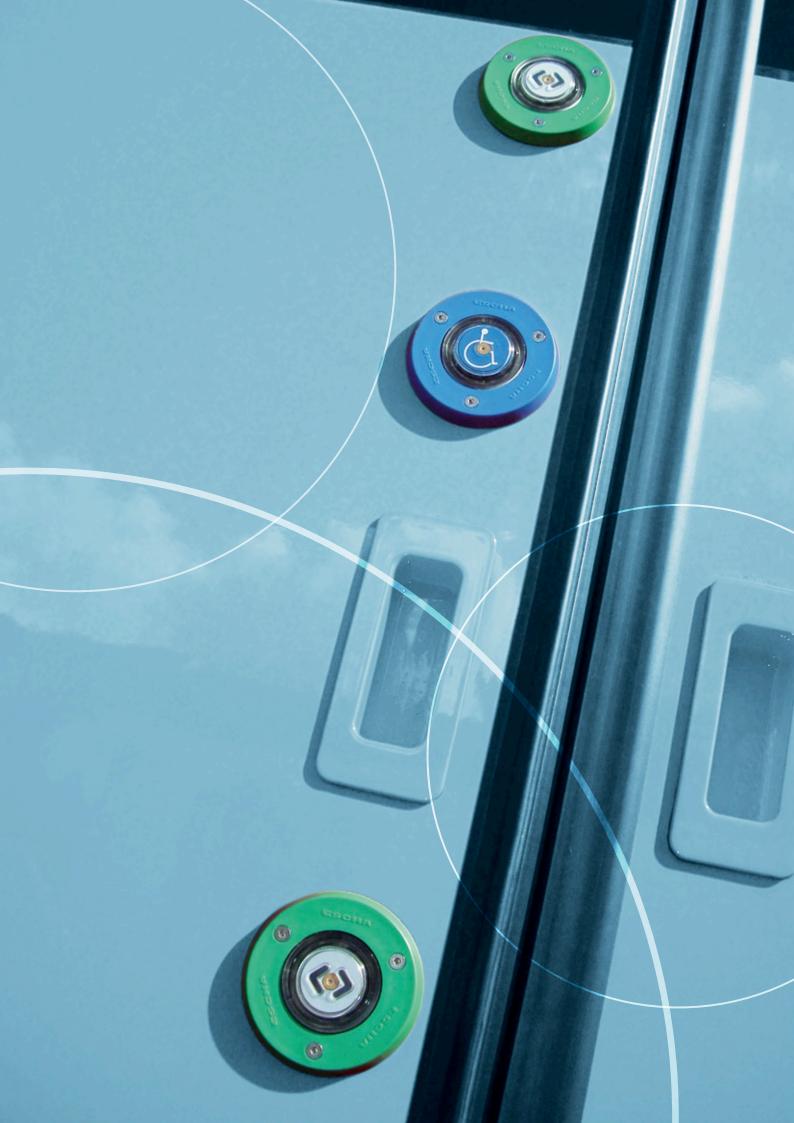


CONNECTION DIAGRAM PNP



Configuration Status "Connection"







ADDITIONAL CONNECTORS AND TECHNICAL DATA

PLUG No.	DESCRIPTION	POLES	DESCRIPTION	APPEARANCE
0	Circular connectors	4	TYCO Electronics/AMP ArtNr.: 0-0925 0750-0	white blue black brown
1	Flat connectors FASTIN-FASTON	4	TYCO Electronics/AMP ArtNr.: 180901	black blue brown
2	Flat connector FASTIN-FASTON	4	TYCO Electronics/AMP 626 057	black blue brown
66	SUPERSEAL connector	4	TYCO Electronics/AMP 2821061-1	brown blue white black
71	Rectangular plug	4	GERMAN DTM044P-4P	brown black

TECHNICAL DATA

Electrical Data		Mechanical Data		Environmental Conditions		
Nominal voltage	24 V _{DC} , 36V _{DC} , 72 V _{DC} , 110 V _{DC}	Housing material and button surface	UV-Stabilized Polycarbonate (UL94 V-0)	Operating life	Approx. 7,000,000 press cycles	
Operating voltage	Refer to nominal voltage +/-30%	Zentraflexring	NBR (Nitrile Butadiene Rubber)	Operating temperature	-40°C to +80°C	
Nominal current	Max. 50 mA or 200 mA	Mounting ring	Polyamide Reinforced glass fiber	Protection level	Waterproof front IP67 rear IP60	
Operating current	Approx. 10 mA	Button diameter	Mechanic construction section			
Switching output	PNP or NPN	Activation force	Approx 7.5 - 9N			
		Connection options	Connections section			





At TSL Downloads!

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