

Checklist Push Button PK52

(Installation in sandwich doors, wall panel and lavatories)



Please fill out the checklist as completely as possible and send the PDF document to: info@tsl-escha.com

After checking the conformity of the checklist, you will receive a final article drawing in which the product is clearly described. In addition, you will receive an attractive offer according to your specifications.

We would also be happy to complete the checklist together with you. Call us at +49 (0)2353-66796-0

When selecting colors and pictograms according to EN 14752 and EN 16584-1, the backgrounds must be taken into account. Furthermore, for compliance with EN 14752 and TSI-LOC & PAS, appropriate light and sound signals must be taken into account. If you have any questions about this, please do not hesitate to contact us.

CUSTOMER INFORMATION

Company:

Name:

Address:

Phone:

E-Mail:

Date:

Project:

Quantity:

Quantity 1. year:

Quantity 2. year:

Quantity 3. year:

Notes:

1 APPLICATION AREA

Side entry systems for railway vehicles

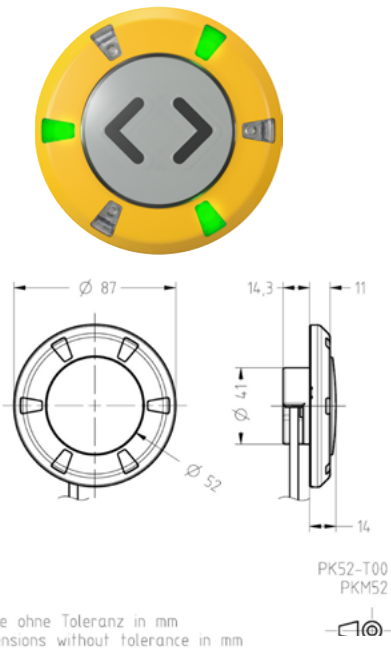
Buses

Pushbutton for help call device and sanitary cells

Other Applications

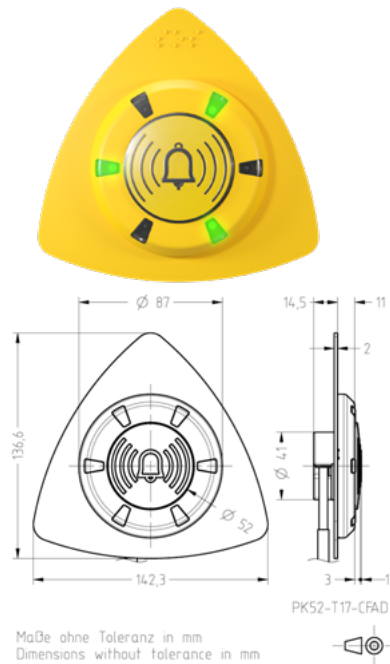
2 CONSTRUCTION TYPE

Construction type 1

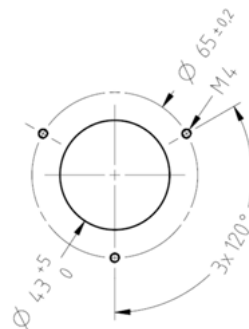
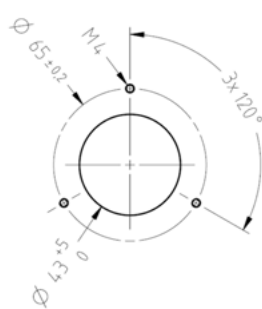


Special construction type

EN 16683 CFAD Call for Aid Devices



3 SCREW ALIGNMENT



4 MOUNTING SCREWS

Standard: 3x ISO 7380, A2, M4x16

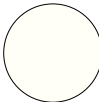
3x ISO 7380, A2, M4x12

3x ISO 7380, A2, M4x20

5

FRONT PANEL

The front panels are available in powder-coated stainless steel or plastic

 RAL 1023 Stainless steel Plastic	 RAL 2008 Stainless steel	 RAL 3020 Stainless steel Plastic	 RAL 5017 Stainless steel Plastic	 RAL 5022 Stainless steel Plastic	 RAL 6024 Stainless steel Plastic	 RAL 6032 Stainless steel Plastic
 RAL 7035 Stainless steel	 RAL 7042 Stainless steel	 RAL 7043 Stainless steel	 RAL 9004 Plastic	 RAL 9006 Stainless steel	 RAL 9016 Stainless steel Plastic	 RAL 9017 Stainless steel



RAL-color or color shade on request

Stainless steel

Plastic (high quantity required)

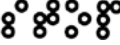
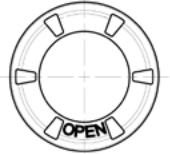
Stainless steel matt not powder coated

Stainless steel delet selection

Plastic delet selection

6

BRILLE-LABELING/PRINTING

	without Braille	Braille open		Braille stop	
	without printing	Printing OPEN		Printing STOP	

7

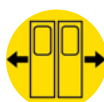
TOUCH SURFACE COATING TO PROTECT AGAINST GRAFFITI REMOVER

Without

With

Note: The graffiti remover protection offers increased protection of the touch surface against our tested graffiti cleaning chemicals. Please follow the cleaning instructions in the PK52 instructions for use and installation. A list of tested cleaning chemicals can be found on our Website [Website www.tsl-escha.com](http://www.tsl-escha.com)

8 TOUCH SURFACE AND PICTOGRAPHS¹⁾

T00 	B05 RAL 5017/RAL 9006 	B12 RAL 1023/RAL 9017 	B83 RAL 250 30 30/ RAL 9016 	B29 RAL 9006/RAL 9017 	B28 RAL 9006/RAL 9017 	B10 RAL 3020/RAL 9006 
	B26 RAL 6024/RAL 9006 	B134 RAL 1023/RAL 9017 	B07 RAL 1023/RAL 9017 	B08 RAL 1023/RAL 9017 	B09 RAL 1023/RAL 9017 	B34 RAL 1023/RAL 9017 
	B84 RAL 1023/RAL 9017 	B123 RAL 1023/RAL 9017 	B31 RAL 5017/RAL 9016 	B68 RAL 5022/RAL 9003 	B112 RAL 5022/RAL 9016 	B135 RAL 5017/RAL 9016 
	B02 RAL 5017/RAL 9016 	B11 RAL 1023/RAL 9017 	B37 RAL 1037/RAL 5022 	B53 RAL 9017/RAL 9016 	B59 RAL 5017/RAL 9016 	B61 RAL 3020/RAL 9016 
	B63 RAL 5022/RAL 9003 	B113 RAL 5017/RAL 9016 	B118 RAL 5017/RAL 9016 	B140 RAL 9006/RAL 9016 	B142 RAL 9016/RAL 9004 	B147 RAL 9003/RAL 5005 
	B01 RAL 9006/RAL 5017 	B40 RAL 5017/RAL 9016 	B111 RAL 5022/RAL 9016 	B148 RAL 1023/RAL 9017 	B160 RAL 9003/RAL 5005 	B150 RAL 5017/RAL 9016 
	B33 RAL 5017/RAL 9016 	B50 RAL 1023/RAL 9017 	B62 RAL 3020/RAL 9016 	B90 RAL 6024/RAL 9016 	B107 RAL 3020/RAL 9016 	B138 RAL 7035/RAL 9017 
	B32 RAL 1023/RAL 9017 	B70 RAL 5022/RAL 9003 	B36 RAL 1037/RAL 5022 	B38 RAL 3020/RAL 7045 	B56 RAL 3020/RAL 9016 	B58 RAL 9017/RAL 3020 
	B109 RAL 3020/RAL 9017 	B54 RAL 9017/RAL 9016 	B141 RAL 9017/RAL 3020 	B57 RAL 9017/RAL 9016 	B85 RAL 3020/RAL 9016 	B30 RAL 3020/RAL 9016 

1) First RAL specification background/second RAL specification symbol

8 TOUCH SURFACE AND PICTOGRAPHS¹⁾

						
	B149 RAL 5017/RAL 9016	B94 RAL 3020/RAL 9017	B161 RAL 9003/RAL 5018	B49 RAL 5017	B128 RAL 1023	B129 RAL 6024
						
	F1 RAL 9006					
						
T01	B28 RAL 9006/RAL 9017	B39 RAL 6024/RAL 9017	B42 RAL 3020/RAL 9016	B46 RAL 6024/RAL 9016	B55 RAL 9017/RAL 9016	
						
	B120 RAL 5022/RAL 9016	B100 RAL 9016/RAL 9004	B35 RAL 1023/RAL 9017	B114 RAL 6032/RAL 9017	B143 RAL 3020/RAL 9004	B144 RAL 5022/RAL 9004
						
	B101 RAL 9016/RAL 9004	B68 RAL 5022/RAL 9003	B75 RAL 5017/RAL 9003	B110 RAL 9016/RAL 5017	B95 RAL 5022/RAL 9003	B127 RAL 3020/RAL 9016
						
	B151 RAL 9006/RAL 9017	B152 RAL 5017/RAL 9003	B130 RAL 3020	B49 RAL 5017		
						
T02	B29 RAL 9006/RAL 9017	B97 RAL 9016/RAL 9017	B47 RAL 3020/RAL 9016	B92 RAL 3020/RAL 9003	B96 RAL 3020/RAL 9017	
						
T03	B60 RAL 5017/RAL 9016	B79 RAL 5022/RAL 9003	B87 RAL 5005/RAL 9016	B98 RAL 3020/RAL 9017	B99 RAL 9006/RAL 9004	
						
T04	B69 RAL 5022/RAL 9003	B36 RAL 1037/RAL 5022	B162 RAL 1023/RAL 9017			

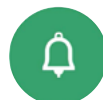
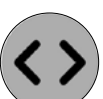
1) First RAL specification background/second RAL specification symbol

8 TOUCH SURFACE AND PICTOGRAPHS¹⁾

						
T05	B70 RAL 5022/RAL 9003					
						
T06	B93 RAL 6024/RAL 9017	B116 RAL 5022/RAL 9003	B126 RAL 9006/RAL 9017	B131 RAL 1023/RAL 9017	B139 RAL 9016/RAL 9017	
						
T07	B56 RAL 3020/RAL 9016	B102 RAL 6024/RAL 9016	B103 RAL 1023/RAL 9017			
						
T08	B48 RAL 5017/RAL 9016					
						
T09	B64 RAL 5017/RAL 9016	B49 RAL 5017	B80 RAL 5022/RAL 9003	B82 RAL 9017/RAL 9016	B88 RAL 5005/ RAL 9016	
						
T10	B43 RAL 5005/RAL 9016	B77 RAL 5022/RAL 9003				
						
T11	B44 RAL 5005/RAL 9016	B78 RAL 5022/RAL 9003				
						
T12	B45 RAL 2003/RAL 9016	B66 RAL 5017/RAL 9016	B81 RAL 5022/RAL 9003	B86 RAL 5005/RAL 9016		
						
T14 Braille ope (open)	B05 RAL 5017/RAL 9006	B26 RAL 6024/RAL 9006	B71 RAL 5017/RAL 9006			

1) First RAL specification background/second RAL specification symbol

8 TOUCH SURFACE AND PICTOGRAPHS¹⁾

T15 Braille ramp (American Grade 2:)						
		B59 RAL 5017/RAL 9016				
T16 Braille ramp						
		B59 RAL 5017/RAL 9016				
T17						
		B30 RAL 3020/RAL 9016	B106 RAL 6018/ RAL 9016	B108 RAL 6032/RAL 9016	B124 RAL 9006/RAL 9017	B157 RAL 1023/RAL 9017
T18						
		B59 RAL 5017/RAL 9016	B117 RAL 5022/RAL 9003	B115 RAL 5022/RAL 9016		
T19						
		B90 RAL 6024/RAL 9016				
T20 Braille stop						
		B02 RAL 5017/RAL 9016	B10 RAL 3020/RAL 9006	B28 RAL 9006/RAL 9017	B31 RAL 5017/RAL 9016	B33 RAL 5017/RAL 9016
						
		B40 RAL 5017/RAL 9016	B107 RAL 3020/RAL 9016	B119 RAL 5015/RAL 9016	B145 RAL 6024/RAL 9016	B132 RAL 9016/RAL 9004
						
		B59 RAL 5017/RAL 9016	B68 RAL 5022/RAL 9003			
T21				Touch surface and pictograph on request		
		B121 RAL 5002/RAL 9016	B137 RAL 5017/RAL 9016			

1) First RAL specification background/second RAL specification symbol

9

NOMINAL VOLTAGE

12 VDC
(without tone)

24 VDC

36 VDC

72 VDC

110 VDC

10

QUICK CONFIGURATION: LIGHT AND TONE SIGNALS

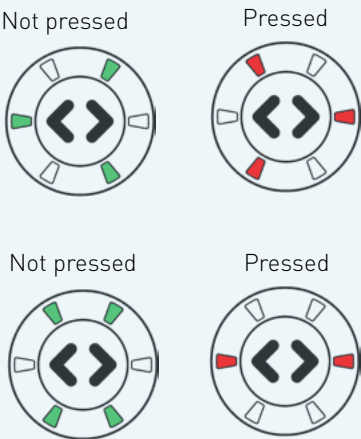
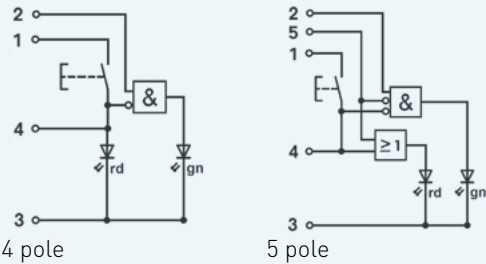
If individual functions are required, please go to [Step 12](#)

If the pushbutton is pressed applies:
 LED: Duration of actuation with 1 sec. minimum pulse
 OUT: Duration of operation with 0.5 sec. minimum pulse

PIN 1:	IN1
PIN 2:	IN2
PIN 3:	GND
PIN 4:	OUT
PIN 5:	IN3
PIN 6:	---

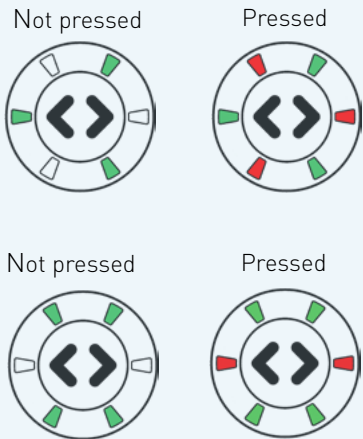
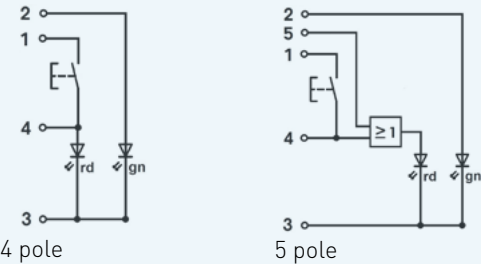
Change of light color and position

For rail vehicles according to EN 14752



Add red light color

(first color is on when pressed)



Delet
selection

Delet
selection

Orientation tone
3,8 kHz 0,05 Sek. 0,5 Hz

Confirmation tone
3,5 kHz 0,5 Sek. 1-time

Orientation and
confirmation tone

without
tone

11 SELECTION OF FUNCTIONS BY PARAMETERIZATION

You can parameterize two functions individually. Define the light, tone and output signals (see chart below for function 1, 2, 3 and 4). For each function, both the light signals, tone signals and the output signal of the pushbutton can be freely selected. For LED light signals with sand glass effect or special requests, please contact our team.

Light Signal	Display	Light Signal	Display
L0		L4	
L1 4 green LEDs		L5 4 red LEDs	
L2 6 green LEDs		L6 6 red LEDs	
L3 3 green LEDs		L7 3 red LEDs	

Tone Signal	Frequency	Duration	Intervall	Functional duration	Description
A0	-	-	-	-	without tone
A1	3,5 kHz	0,5 Sek.	0,5 Sec.	0,5 Sec.	Confirmation tone
A2	3,8 kHz	0,05 Sek.	2 Sec.	∞	Orientation tone
AX	kHz	Sec.	Sec.	0,5 Sec.	

Function 1			Not pressed		Pressed		
Vin	In1		Light Signal	Tone Signal	Light Signal	Tone Signal	Output Signal
1	0						
			Flashing 1Hz		Duration of operation		Duration of operation
					Flashing 1Hz		
					Sec.		

Function 2			Not pressed		Pressed		
Vin	In1		Light Signal	Tone Signal	Light Signal	Tone Signal	Output Signal
1	1						
			Flashing 1Hz		Duration of operation		Duration of operation
					Flashing 1Hz		
					Sec.		

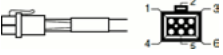
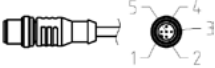
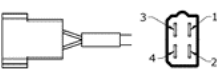
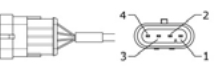
From function 3 a 5-wire connection is necessary

Function 3				Not pressed		Pressed		
Vin	In1	In2		Light Signal	Tone Signal	Light Signal	Tone Signal	Output Signal
1	0	1						
			Flashing 1Hz			Duration of operation		Duration of operation
						Flashing 1Hz		
						Sec.		

Function 4				Not pressed		Pressed		
Vin	In1	In2		Light Signal	Tone Signal	Light Signal	Tone Signal	Output Signal
1	1	1						
			Flashing 1Hz			Duration of operation		Duration of operation
						Flashing 1Hz		
						Sec.		

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CONNECTION CABLES

65) TE Mini-Universal MATE-N LOK TE 794895-1 6pole (IP56)		23) ESCHA Ø8 Snap (max. 30 VDC) SP6 6pole (IP67)	
61) ESCHA M12 (max. 60 VDC) WAS4, 5pole (IP67)		E3) TE SUPERSEAL 1.5MM TE 282107-1 5pole (IP67)	
64) TE Mini-Universal MATE-N-LOK, TE 794805-1 4pole (IP56)		01) TE FASTIN-FASTON 250 TE 180901-0, 6,3 x 0,8 mm 4pole	
66) TE SUPERSEAL 1.5MM TE 282106-1 4pole (IP67)		00) TE CIRCULAR MATE-N-LOK, TE 925075, Ø 2,1 mm 4pole	
71) TE DEUTSCH DTM DTM04-4P 4pole (IP67)		02) TE FASTIN-FASTON 110 TE 626057-0, 2,8 x 0,8 mm 4pole	
60) ESCHA M8/Ø8 Snap (max. 60 VDC) SSFP4 4pole (IP67)		8S) TE ULTRAFAST 250 2-520184-2, 6,3 x 0,8 mm	
8A) mit Aderendhülsen		Sondervariante	

PIN ASSIGNMENT

	Version 1	Version 2 (Kapitel 10)
PIN 1:	Vin	IN1
PIN 2:	In1	IN2
PIN 3:	GND	GND
PIN 4:	OUT	OUT
PIN 5:	In2	IN3
PIN 6:	---	---

ALTERNATIVE PIN ASSIGNMENT

PIN 1:	
PIN 2:	
PIN 3:	
PIN 4:	
PIN 5:	
PIN 6:	

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CONNECTION LINE

[ACCORDING TO EN 45545-2 AND UN/ECE R118]

L = ca. 160 mm

L =

mm (Minium length 90mm)