Series 56 *Intuitive and reliable. Worldwide.*

https://eao.com/56





56 Information about the Series

Key advantages

- Unique tactile feedback
- Conform to TSI PRM
- Exceptional long-term reliabilityWide product range
- Simple integration through mounting options
- Individually customisable

Typical application areas

Passenger access systems Passenger information systems Call for aid terminals Emergency and emergency call systems Toilet facilities on trains and buses Lifting and moving systems

Functions

- Indicator
- Door opening pushbutton

Access control systems

- Lever switch
- Warning tone module (Multi-Tone Sound Module)
- Flashing warning beacon

Design

- Front mounting
- Rear mounting
- Glass mounting

IP front pRedection

IP67

Raitings

- min. 5 VDC, 5 mA/max. 137 VDC/VAC, max. 200 mA
- min. 10 μA/max. 250 mA (56 Access)

Mounting cut-outs

Ø 42 mm

2

Terminal

Cable with direct connection

Lens Material

- Aluminium
- Plastic

Markings

- Laser marking
- Milling

Approvals

- CQC
- e1
- TSI PRM (EBC)

Conformities

- CE
- 2014/30/EU (EMC)
- 1300/2014/EU (TSI PRM)
- 2011/65/EU (RoHS)
- 2014/35/EU (LVD)



Overview Front mounting Single side indicator 4 Single side pushbutton 6 13 Lever switch Multi-Tone Sound Module 14 Flashing Warning Beacon 17 Rear mounting Single side indicator 19 21 Single side pushbutton Multi-Tone Sound Module 24 Glass mounting Single side pushbutton 27 Double side pushbutton 31 Multi-Tone Sound Module 35 Components 39 Accessories 53 **Technical Data** 54 Application guidelines 68 72 Index

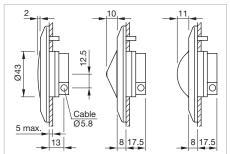
Single side indicator



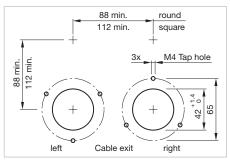
The preview is based on a sample product. This can differ from your current configuration.

Additional Information

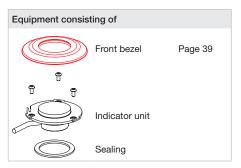
 Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads



Dimensions [mm]

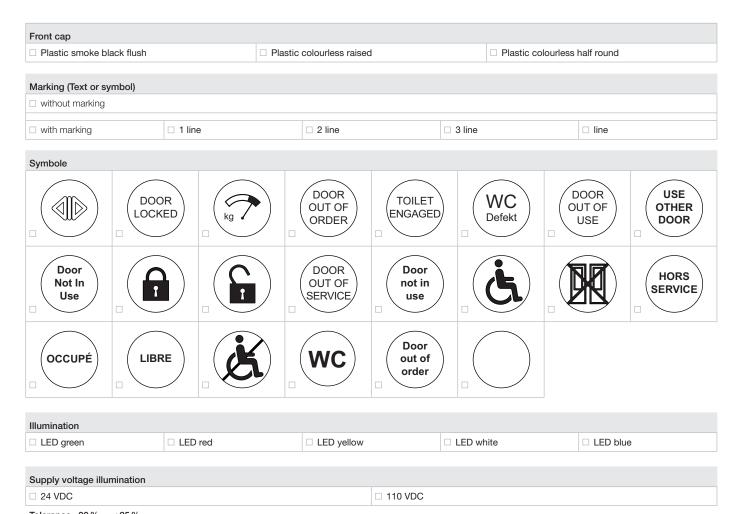


Mounting cut-outs [mm]



Each part listed below includes all the black components shown in the 3D-drawing.

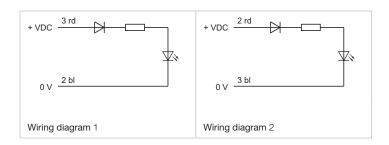
To obtain a complete unit, please select the red components from the pages shown.



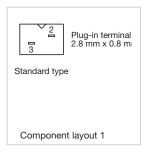
Tolerance -30 % ... +25 %

Cable exit							
☐ Cable exit right			□ Cable exit left				
Cable length							
□ A = 200 mm	□ A = 500 mm	□ A = 1000 mn	n	□ A = 150	00 mm	□ m	m
Cable and Connector type							
Cable			Connector				
□ 2x0.24 mm²			☐ Core end-sle	eeves			
			☐ AMP connec	tor Mate-N	-Lok (Wiring diagram 2	2)	
			□ DEUTSCH C	onnector (V	Viring diagram 2)		
			☐ AMP connec	tor 2.8 mm	x 0.8 mm (Wiring diag	ram 1)	
			☐ AMP connec	tor 6.3 mm	x 0.8 mm (Wiring diag	ram 2)	
Housing							
☐ Housing D73 (standard)	□ Hous	ng reworked 50 m	mx50mm		☐ Housing reworked	l 68.5 mm x 50 m	m

Wiring diagrams



Component layouts



Single side pushbutton



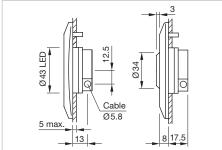
The preview is based on a sample product. This can

Additional Information

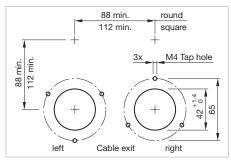
Lens marking ☐ without symbol

differ from your current configuration.

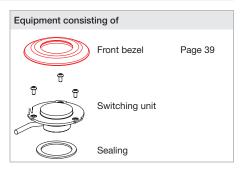
Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at <u>www.eao.com/downloads</u>



Dimensions [mm]



Mounting cut-outs [mm]



Each part listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

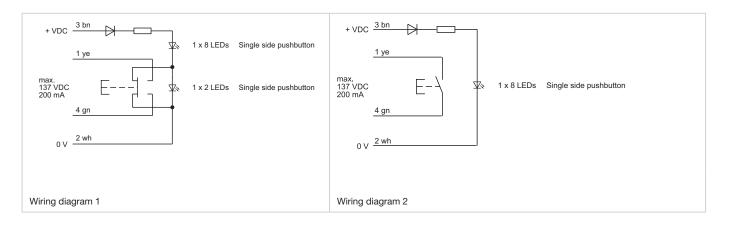
Lens						
☐ flush, plastic, colour similar RAL	☐ flush, aluminium	□ raised, aluminium				
□ green RAL 6024	□ naturel	□ naturel				
□ red RAL 3020	□ green	□ green				
□ blue RAL 5017	□ red	□ red				
□ yellow RAL 1023	□ blue	□ blue				
□ grey RAL 7040	□ yellow	□ yellow				
		□ black				

□ with symbol aluminium, raised (engraved)						
	☐ Symbol No. 00.835	□ Symbol No. 00.836	☐ Symbol No. 00.868	□ Symbol No. 00.869	□ Symbol No. 40089	□ Symbol No. 60523
	☐ Symbol No. WC	☐ Symbol No. 60034	☐ Symbol No. 01.590	☐ Symbol No. Wasserhahn	☐ Symbol No. Behinderten	
□ with symbol aluminium, flat (engraved/lasered) □ with symbol plastic, flat (engraved/lasered)				(S)<	(5)	
	☐ Symbol No. 00.835	☐ Symbol No. 00.836	☐ Symbol No. 00.868	☐ Symbol No. 00.869	□ Symbol No. 40089	☐ Symbol No. 60523
Symbol colour	□ black			□ white		

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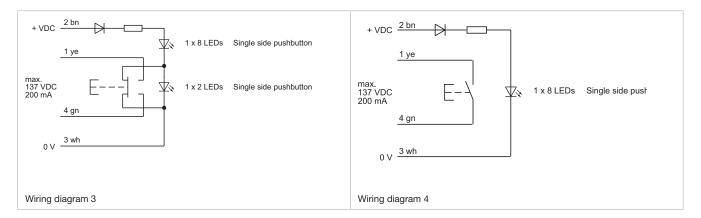
Illumination									
□ without illumination									
☐ with illumination	□ 8 green	□ 8 red	□ 8 blu	е	□ 8 yellow □ 8 gree		□ 8 green.	en/2 red 🗆 8 red/2 greer	
Supply voltage Illumination	on								
□ 24 VDC	□ 36 VDC	□ 48	3 VDC		□ 72 VI	OC		□ 110 V	/DC
Tolerance -30 % +25 %									
Cable exit									
☐ Cable exit right				☐ Cable exit	left				
Cable length									
□ A = 200 mm	□ A = 500 mm	□ A = 10	000 mm		□ A = 150	0 mm		<u> </u>	mm
Cable and connector type	•								
Cable				Connector					
☐ 2x0.5 mm² (Wiring diag	ram 5)			☐ Core end-	sleeves				
☐ 4x0.5 mm² (Wiring diag	ram 1, 2, 3, 4)			☐ AMP conn	ector Mate-	-N-Lok (Wiri	ng diagram	3, 4)	
				□ DEUTSCH	connector	(Wiring diag	ram 3, 4)		
				□ AMP conn	ector 2.8 m	m x 0.8 mm	(Wiring dia	gram 1, 2)	
				☐ AMP conn	ector 6.3 m	m x 0.8 mm	(Wiring diag	gram 3, 4)	
_									
Housing									
☐ Housing D73 (standard)		☐ Housing rewe	orked 50 m	mx50mm		☐ Housi	ng reworke	d 68.5 mm	x50mm
	}								

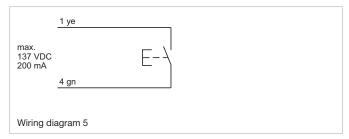
Wiring diagrams

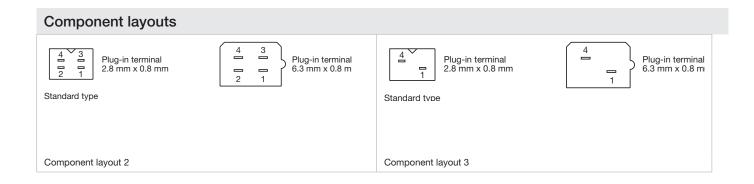


Wiring diagrams

8







Single side pushbutton, 56 Access

Equipment consisting of (schematic overview)



Front bezel

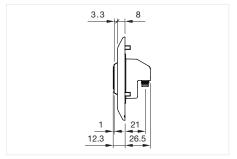


Screws



Switching unit

Each Part Number listed below includes all the black components shown in the 3D-drawing.



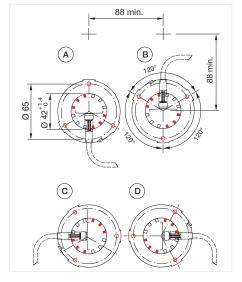
Dimensions [mm]



The preview is based on a sample product. This can differ from your current configuration.

Additional information

- Standard device plug M8×1, 6-pole
- Raised symbols comply with TSI PRM
- User-friendly, large Ø 33 mm actuating surface
- Highly visible LED illumination green/red
- Operating voltage 10-30 VDC
- Scope of delivery without cable
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads



Mounting cut-outs [mm]

- A = Cable exit bottom
- B = Cable exit top
- C = Cable exit left D = Cable exit right

Cable 6-pole with M8x1, socket straight female, according to EN 61076-2-104

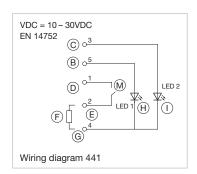


Single side pushbutton, 56 Access, Frontdimension Ø 87 mm

Lens material	Lens shape	Symbol	Cable output	Front bezel colour	Colour similar RAL	Part No.	Wiring diagram	Com- ponent layout
☐ Aluminium	raised	Po	bottom or top	Black	9017 RAL	56-1520.1501	441	106
☐ Aluminium	raised		bottom or top	Red	3020 RAL	56-1520.1502	441	106
☐ Aluminium	raised		bottom or top	Yellow	1023 RAL	56-1520.1503	441	106
☐ Aluminium	raised		bottom or top	Green	6024 RAL	56-1520.1504	441	106
☐ Aluminium	raised		bottom or top	Blue	5017 RAL	56-1520.1505	441	106
☐ Aluminium	raised		bottom or top	Light grey	7040 RAL	56-1520.1506	441	106
Aluminium	raised		left or right	Black	9017 RAL	56-1520.1601	441	106
☐ Aluminium	raised		left or right	Red	3020 RAL	56-1520.1602	441	106
☐ Aluminium	raised		left or right	Yellow	1023 RAL	56-1520.1603	441	106
Aluminium	raised		left or right	Green	6024 RAL	56-1520.1604	441	106
☐ Aluminium	raised		left or right	Blue	5017 RAL	56-1520.1605	441	106
Aluminium	raised		left or right	Light grey	7040 RAL	56-1520.1606	441	106
Aluminium	raised	(2)	bottom or top	Black	9017 RAL	56-1520.2501	441	106
Aluminium	raised		bottom or top	Red	3020 RAL	56-1520.2502	441	106
☐ Aluminium	raised		bottom or top	Yellow	1023 RAL	56-1520.2503	441	106
Aluminium	raised		bottom or top	Green	6024 RAL	56-1520.2504	441	106
Aluminium	raised		bottom or top	Blue	5017 RAL	56-1520.2505	441	106

Lens material	Lens shape	Symbol	Cable output	Front bezel colour	Colour similar RAL	Part No.	Wiring diagram	Com- ponent layout
☐ Aluminium	raised	(2)	bottom or top	Light grey	7040 RAL	56-1520.2506	441	106
☐ Aluminium	raised		left or right	Black	9017 RAL	56-1520.2601	441	106
☐ Aluminium	raised		left or right	Red	3020 RAL	56-1520.2602	441	106
☐ Aluminium	raised		left or right	Yellow	1023 RAL	56-1520.2603	441	106
☐ Aluminium	raised		left or right	Green	6024 RAL	56-1520.2604	441	106
☐ Aluminium	raised		left or right	Blue	5017 RAL	56-1520.2605	441	106
☐ Aluminium	raised		left or right	Light grey	7040 RAL	56-1520.2606	441	106
☐ Aluminium	raised		bottom	Black	9017 RAL	56-1520.3101	441	106
☐ Aluminium	raised		bottom	Red	3020 RAL	56-1520.3102	441	106
☐ Aluminium	raised		bottom	Yellow	1023 RAL	56-1520.3103	441	106
☐ Aluminium	raised		bottom	Green	6024 RAL	56-1520.3104	441	106
☐ Aluminium	raised		bottom	Blue	5017 RAL	56-1520.3105	441	106
☐ Aluminium	raised		bottom	Light grey	7040 RAL	56-1520.3106	441	106
☐ Aluminium	raised		top	Black	9017 RAL	56-1520.3201	441	106
☐ Aluminium	raised		top	Red	3020 RAL	56-1520.3202	441	106
☐ Aluminium	raised		top	Yellow	1023 RAL	56-1520.3203	441	106
☐ Aluminium	raised		top	Green	6024 RAL	56-1520.3204	441	106
☐ Aluminium	raised		top	Blue	5017 RAL	56-1520.3205	441	106
☐ Aluminium	raised		top	Light grey	7040 RAL	56-1520.3206	441	106
☐ Aluminium	raised		left	Black	9017 RAL	56-1520.3301	441	106
☐ Aluminium	raised		left	Red	3020 RAL	56-1520.3302	441	106
☐ Aluminium	raised		left	Yellow	1023 RAL	56-1520.3303	441	106
☐ Aluminium	raised		left	Green	6024 RAL	56-1520.3304	441	106
☐ Aluminium	raised		left	Blue	5017 RAL	56-1520.3305	441	106
☐ Aluminium	raised		left	Light grey	7040 RAL	56-1520.3306	441	106
☐ Aluminium	raised		right	Black	9017 RAL	56-1520.3401	441	106
☐ Aluminium	raised		right	Red	3020 RAL	56-1520.3402	441	106
☐ Aluminium	raised		right	Yellow	1023 RAL	56-1520.3403	441	106
☐ Aluminium	raised		right	Green	6024 RAL	56-1520.3404	441	106
☐ Aluminium	raised		right	Blue	5017 RAL	56-1520.3405	441	106
☐ Aluminium	raised		right	Light grey	7040 RAL	56-1520.3406	441	106

Wiring diagrams



Legend

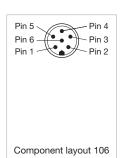
B = VDC illumination green

B = VDC illumination green
C = VDC illumination red
D = VDC
E = Switch (not potential-free)
F = Load (max. 250 mA)
G = 0 V
H = Illumination green

I = Illumination red

M = High Side Switch

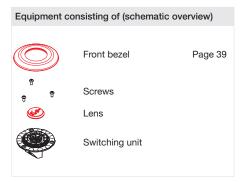
Component layouts



Pin Assignment Front View
M8 male A-Coding 6 Pin
according to EN 61076-2-104

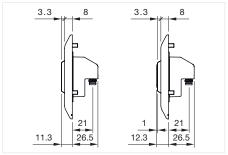
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Single side pushbutton 56 Universal



Each Part Number listed below includes all the black components shown in the 3D-drawing.

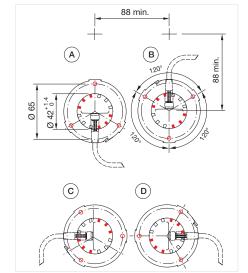
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



The preview is based on a sample product. This can differ from your current configuration.



Mounting cut-outs [mm]

- A = Cable exit bottom
- B = Cable exit top
- C = Cable exit left
- D = Cable exit right

Additional information

- Laser engraving on lens possible
- 14 standard symbols
- ISO 7000 symbols on request
- Other symbols available on request (minimum order quantity 50 pcs.)
- Standard device plug M8×1, 6-pole
- User-friendly, large Ø 33 mm actuating surface
- Highly visible LED illumination green/red
- Operating voltage 10–30 VDC
- Scope of delivery without cable
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads



Switching unit, without lens, without front bezel

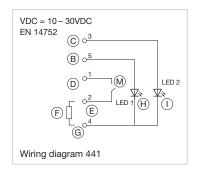
Housing colour	Housing material	Part No.	Wiring diagram	Com- ponent layout
□ Black	Plastic	56-1520.0000	441	106

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Lens aluminium	Artikel-No.	
□ without symbol	56-4.00001	

□ with symbol, black, laser engraved	00	Ġ.	(4)	(3)	(1)	SOS
	□ Part No. 56-6.00001	□ Part No. 56-6.00002	☐ Part No. 56-6.00003	□ Part No. 56-6.00004	□ Part No. 56-6.00005	□ Part No. 56-6.00006
	i	0	Power	Power	Start	STOP
	□ Part No. 56-6.00007	□ Part No. 56-6.00008	□ Part No. 56-6.00009	☐ Part No. 56-6.00010	□ Part No. 56-6.00011	□ Part No. 56-6.00012
		LIFT				
	☐ Part No. 56-6.00013	☐ Part No. 56-6.00014				
□ with symbol plastic, black raised						
	□ Part No. 56-1.00001	□ Part No. 56-2.00001	□ Part No. 56-3.00001			

Wiring diagrams



Legend

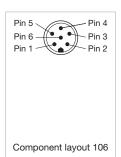
B = VDC illumination green

D = VDC illumination red
D = VDC
E = Switch (not potential-free)
F = Load (max. 250 mA)
G = 0 V

H = Illumination green
I = Illumination red

M = High Side Switch

Component layouts

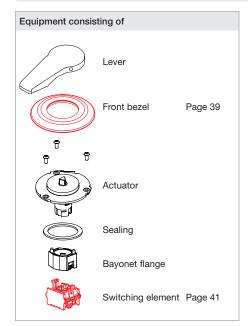


12

Pin Assignment Front View M8 male A-Coding 6 Pin according to EN 61076-2-104

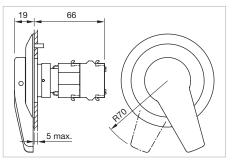
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Lever Switch

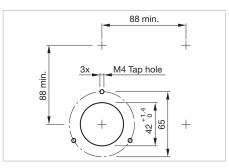


Each part listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Mounting cut-outs [mm]



The preview is based on a sample product. This can differ from your current configuration.

Additional Information

- Lever aluminium naturel anodized
- Two switching positions
- Switching action: 0-maintain

Switching angle	Part No.
45°	704.107.1

Wiring diagrams

∬ ~ - - ~ - Wiring diagram 1

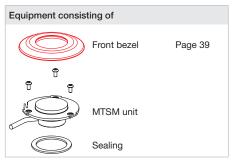
Multi-Ton Sound Modul



The preview is based on a sample product. This can differ from your current configuration.

2 10 10 Cable Ø5.8 8 17.5

Dimensions [mm]



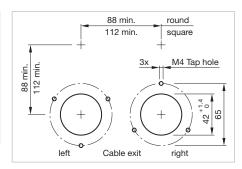
Each part listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Additional Information

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- The descriptions of the standard tone sequences see «Application guidelines»
- After completion of the interior work, we recommend performing acoustic measurements of the sound level inside or outside the car (TSI PRM)
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads

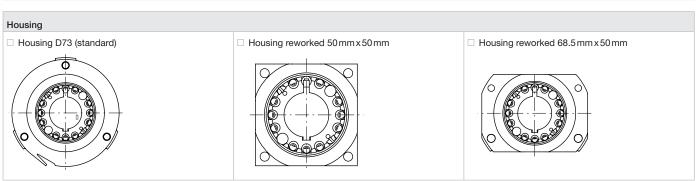


Mounting cut-outs [mm]

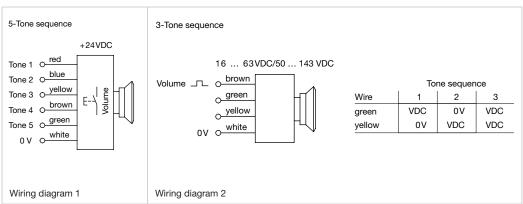
Front cap								
☐ Plastic black flush				□ Plastic black raised				
Front cap marking								
□ without symbol				□ with symbol				
Volume adjustment								
☐ Manually (3-/5-Tone Sequence	es Module)			□ Automatically	/ (6-Tone S	equences Module)		
Tone sequence								
□ 3-tone		☐ 5-tone				□ 6-tone		
Supply voltage								
☐ 24 VDC (5-Tone Sequences N	Module)	□ 1663	3 VDC (3-/6-Tone	Sequences Mod	lule)	□ 50143 VDC (3-/	6-Tone Sequences Modul	le)
Tolerance ±30 %								
Cable exit								
□ cable exit right				□ cable exit left	İ			
Cable length								
□ A = 200 mm	□ A = 500 mm		□ A = 1000 mm		□ A = 150	00 mm	□ mm	

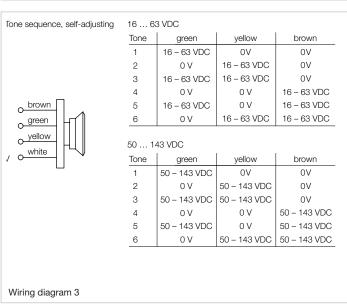
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Cable and connector type					
Cable	Connector				
□ 4x0.25 mm²	☐ Core end-sleeves				
□ 4x0.5 mm²	☐ AMP connector Mate-N-Lok (Wiring diagram 3, 4)				
□ 6x0.5 mm²	□ DEUTSCH connector (Wiring diagram 3, 4)				
	☐ AMP connector 2.8 mm x 0.8 mm (Wiring diagram 1, 2))				
	☐ AMP connector 6.3 mm x 0.8 mm (Wiring diagram 3, 4)				



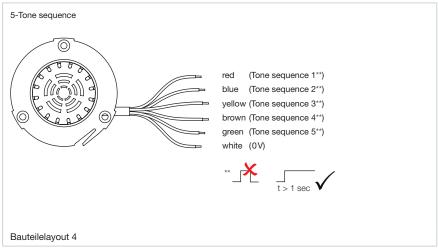
Wiring diagrams

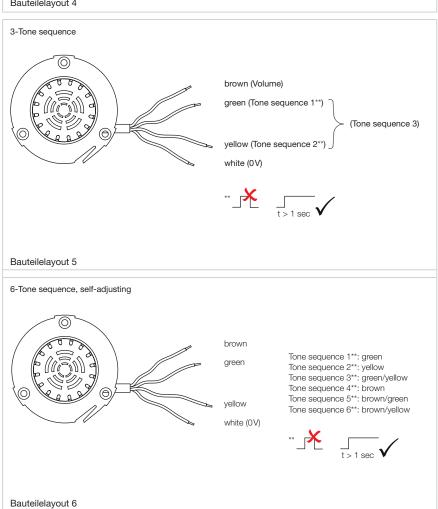




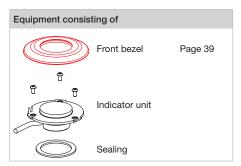
Component layouts

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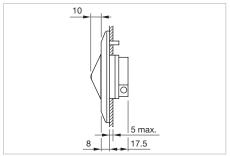
Flashing warning beacon



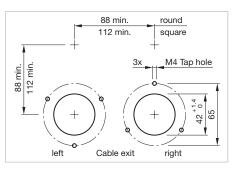
Each part listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Front cap



Dimensions [mm]



Mounting cut-outs [mm]



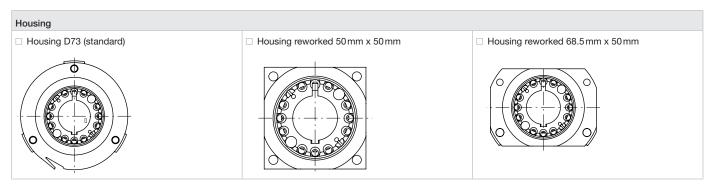
The preview is based on a sample product. This can differ from your current configuration.

Additional Information

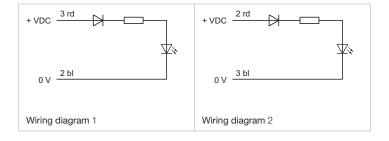
 Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads

o c o a p							
☐ Plastic colourless raised							
Illumination							
□ LED white							
Supply voltage Illumination							
□ 24 VDC							
Tolerance ±30 %							
Cable exit							
☐ Cable exit right			☐ Cable exit le	ft			
Cable length							
□ A = 200 mm	□ A = 500 mm	□ A = 1000 mm	า	□ A = 1500 mm	□ mm		
Cable and connector type							
Cable			Connector				
□ 2x0.24 mm²			□ Core end-sleeves				
		☐ AMP connector Mate-N-Lok (Wiring diagram 2)					
□ DEUTSCH connector (Wiring diagram 2)							
□ AMP connector 2.8 mm x 0.8 mm (Wiring diagram 1)							
			☐ AMP connec	ctor 6.3 mm x 0.8 mm (Wiring dia	gram 2)		

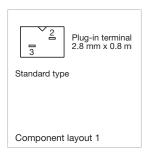
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Wiring diagrams

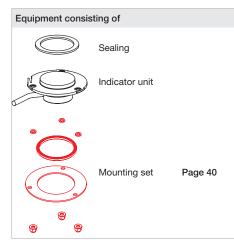


Component layouts



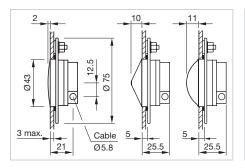
18

Single side indicator

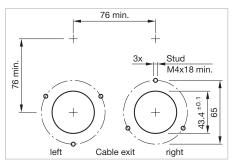


Each part listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



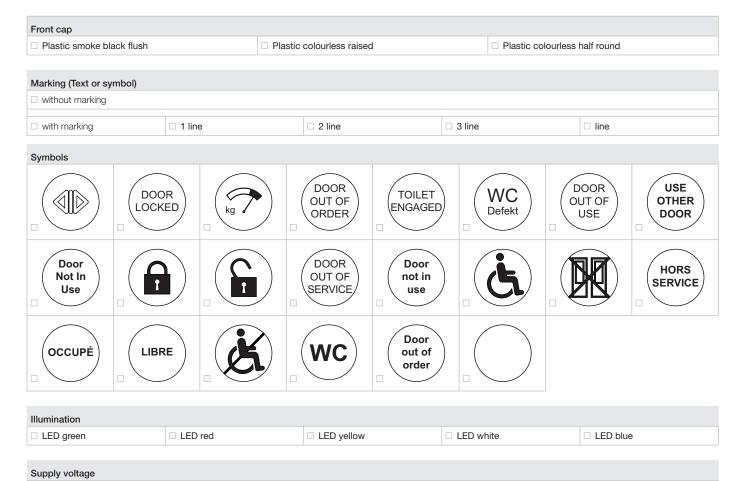
Mounting cut-outs [mm]



The preview is based on a sample product. This can differ from your current configuration.

Additional Information

 Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads



Tolerance -30 % ... +25 %

□ 24 VDC

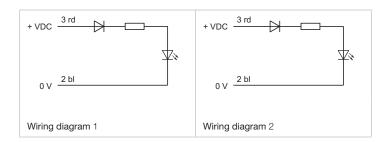
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☐ 110 VDC

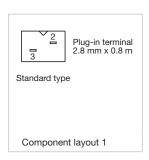
56 Rear mounting

Cable exit								
☐ Cable exit right	☐ Cable exit let	ft						
Cable length								
□ A = 200 mm	□ A = 500 mm	□ A = 1000 mm	ı	□ A = 150	00 mm		_ mm	
Cable and connector type								
Cable			Connector					
□ 2x0.24mm²			☐ Core end-sle	eves				
			☐ AMP connec	tor Mate-N	-Lok (Wiring diagram	2)		
		□ DEUTSCH connector (Wiring diagram 2)						
	□ AMP connector 2.8 mm x 0					x0.8mm (Wiring diagram 1)		
			☐ AMP connector 6.3 mm x 0.8 mm (Wiring diagram 2)					
Housing								
☐ Housing D73 (standard)	☐ Housin	g reworked 50 m	mx50mm		☐ Housing reworked	l 68,5 mm x 5	50 mm	

Wiring diagrams

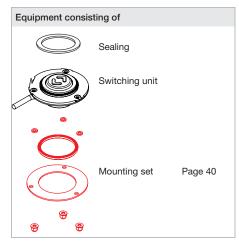


Component layouts



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Single side pushbutton

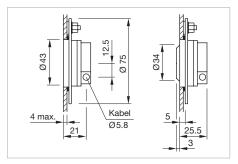


Each part listed below includes all the black components shown in the 3D-drawing.

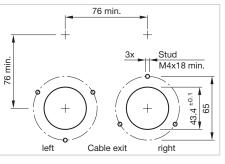
To obtain a complete unit, please select the red components from the pages shown.

Lens marking

☐ without symbol



Dimensions [mm]



Mounting cut-outs [mm]



The preview is based on a sample product. This can differ from your current configuration.

Additional Information

 Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads

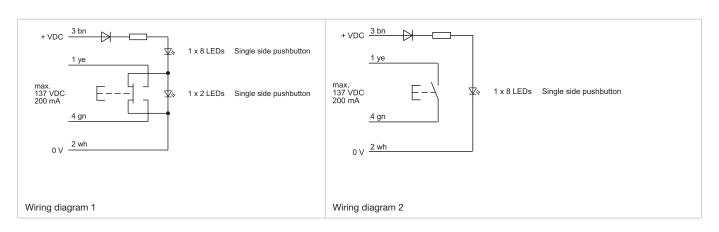
Lens							
☐ flush, plastic, colour similar RAL	☐ flush, aluminium	□ raised, aluminium					
□ green RAL 6024	□ naturel	□ naturel					
□ red RAL 3020	□ green	□ green					
□ blue RAL 5017	□ red	□ red					
□ yellow RAL 1023	□ blue	□ blue					
□ grey RAL 7040	□ yellow	□ yellow					
		□ black					

□ with symbol aluminium, raised (engraved)						
	☐ Symbol No. 00.835	☐ Symbol No. 00.836	☐ Symbol No. 00.868	☐ Symbol No. 00.869	☐ Symbol No. 40089	□ Symbol No. 60523
	□ Symbol No. WC	☐ Symbol No. 60034	□ Symbol No. 01.590	□ Symbol No. Wasserhahn	Symbol No.Behinderten	
□ with symbol aluminium, flat (engraved/lasered) □ with symbol plastic, flat (engraved/lasered)				(53)	(5)	
	☐ Symbol No. 00.835	□ Symbol No. 00.836	☐ Symbol No. 00.868	□ Symbol No. 00.869	□ Symbol No. 40089	□ Symbol No. 60523
Symbol colour	□ black			□ white		

56 Rear mounting

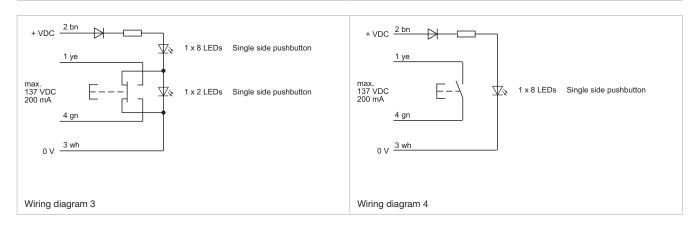
Illumination										
□ without illumination										
$\hfill\square$ with illumination	□ 8 green	□ 8 red		□ 8 blue		□ 8	yellow	□ 8 green/2	2 red	□ 8 red/2 green
Supply voltage Illumin	nation									
□ 24 VDC	□ 36 VD	C	□ 4	18 VDC			☐ 72 VDC		□ 110 \	/DC
Tolerance -30 % +29	5 %									
Cable exit										
☐ Cable exit right					☐ Cable ex	kit lef	t			
Cable length										
□ A = 200 mm	□ A = 500 mm	1	□ A = 1	000 mm			A = 1500 mm	A = 1500 mm		mm
Cable and connector	type									
Cable					Connector					
□ 2x0.5 mm² (Wiring o	diagram 5)				☐ Core end	d-sle	eves			
☐ 4x0.5 mm² (Wiring o	diagram 1, 2, 3, 4)				☐ AMP connector Mate-N-Lok (Wiring diagram 3, 4)					
					□ DEUTSCH connector (Wiring diagram 3, 4)					
					☐ AMP connector 2.8 mm x 0.8 mm (Wiring diagram 1, 2))					
					☐ AMP connector 6.3 mm x 0.8 mm (Wiring diagram 3, 4)					
Housing										
☐ Housing D73 (stand	lard)	□ F	lousing rev	vorked 50 m	mx50mm		□ Hou	sing reworked	d 68.5 mm	x50mm
		_								

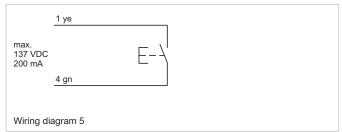
Wiring diagrams



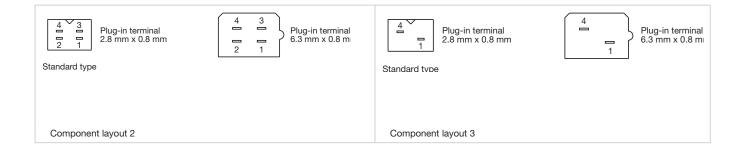
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Wiring diagrams





Component layouts



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56 Rear mounting

Multi-Ton Sound Modul

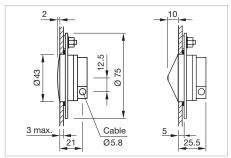


The preview is based on a sample product. This can differ from your current configuration.

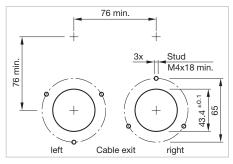
Additional Information

24

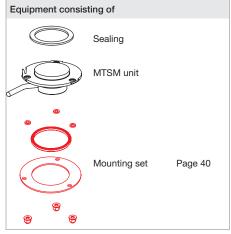
- The descriptions of the standard tone sequences see «Application guidelines»
- After completion of the interior work, we recommend performing acoustic measurements of the sound level inside or outside the car (TSI PRM)
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads



Dimensions [mm]



Mounting cut-outs [mm]

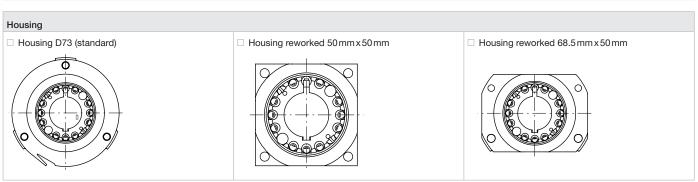


Each part listed below includes all the black components shown in the 3D-drawing.

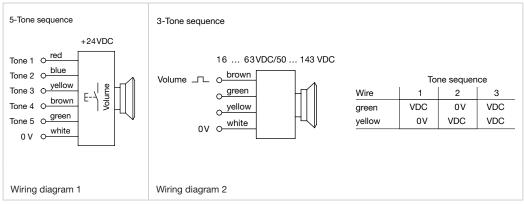
To obtain a complete unit, please select the red components from the pages shown.

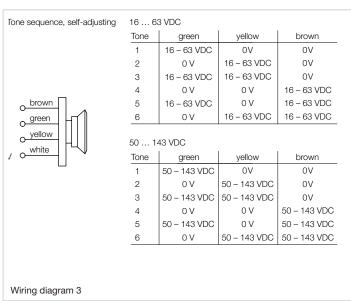
Front cap						
☐ Plastic black flush			☐ Plastic black	k raised		
Front cap marking						
□ without symbol			□ with symbol			
Volume adjustment						
☐ Manually (3-/5-Tone Sequence	es Module)		☐ Automatical	ly (6-Tone S	equences Module)	
			·			
Tone sequence						
□ 3-tone		5-tone			□ 6-tone	
Supply voltage						
☐ 24 VDC (5-Tone Sequences N	Module)	1663 VD	C (3-/6-Tone Sequences Mo	dule)	□ 50143 VDC (3-/	6-Tone Sequences Module)
Tolerance ±30 %						
Cable exit						
□ cable exit right			□ cable exit le	ft		
Cable length						
□ A = 200 mm	□ A = 500 mm		A = 1000 mm	□ A = 150	00 mm	□ mm

Cable and connector type					
Cable	Connector				
□ 4x0.25 mm²	☐ Core end-sleeves				
□ 4x0.5 mm²	☐ AMP connector Mate-N-Lok (Wiring diagram 3, 4)				
□ 6x0.5mm²	□ DEUTSCH connector (Wiring diagram 3, 4)				
	☐ AMP connector 2.8 mm x 0.8 mm (Wiring diagram 1, 2))				
	☐ AMP connector 6.3 mm x 0.8 mm (Wiring diagram 3, 4)				



Wiring diagrams



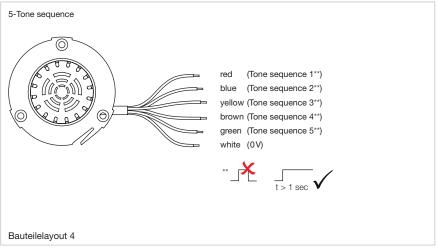


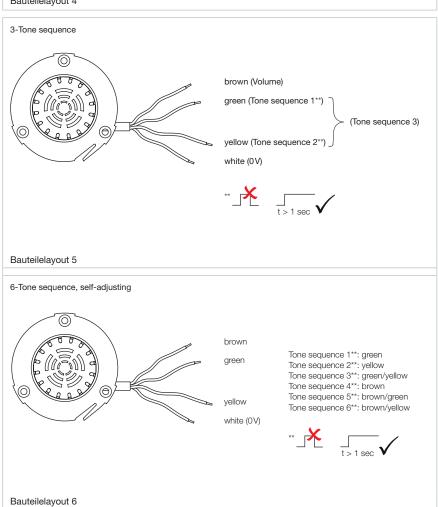
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56 Rear mounting

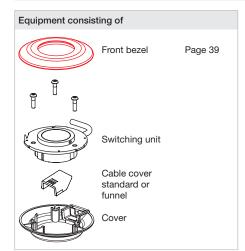
Component layouts

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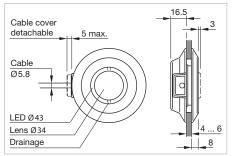


Single side pushbutton

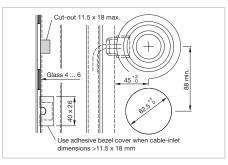


Each part listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Mounting cut-outs [mm]

☐ Symbol No.

00.835

□ black



The preview is based on a sample product. This can differ from your current configuration.

Additional Information

- Front bezel Ø 87 mm
- Cable exit left
- Housing D73 (standard)
- Other cable cover are available
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads

Lens						
$\ \square$ flush, plastic, colour similar RAL	☐ flush, aluminiu	m		□ raised, alumin	ium	
□ green RAL 6024	□ naturel			□ naturel		
□ red RAL 3020	□ green			□ green		
□ blue RAL 5017	□ red			□ red		
□ yellow RAL 1023	□ blue			□ blue		
□ grey RAL 7040	□ yellow			□ yellow		
				□ black		
	<u> </u>					
Lens marking						
□ without symbol						
 with symbol aluminium, black anodised, raised (engraved) 						
	☐ Symbol No. 00.835	☐ Symbol No. 00.836	☐ Symbol No. 00.868	Symbol No. 00.869	☐ Symbol No. 40089	☐ Symbol No. 60523
	☐ Symbol No. WC	Symbol No. 60034	☐ Symbol No. 01.590	☐ Symbol No. Wasserhahn	☐ Symbol No. Behinderten	

Symbol No.

00.836

Symbol No.

00.868

Symbol No.

00.869

□ white

Symbol No.

40089

Symbol colour

with symbol aluminium, flat (engraved/lasered)with symbol plastic, flat (engraved/lasered)

Symbol No.

60523

56 Glass mounting

Illumination										
☐ without illumination										
□ with illumination	□ 8 gree	en	□ 8 red		□ 8 blue		8 yellow	□ 8 green/	2 red	□ 8 red/2 green
Supply voltage Illumin	nation									
☐ 24 VDC		□ 36 VDC		_ Z	48 VDC		□ 72 VDC		□ 110	VDC
Tolerance -30 % +2	5%									
Cable length										
□ A = 200 mm	□ A	= 500 mm		□ A = 1	1000 mm		□ A = 1500 mm		□ mm	
Cable and connector	type									
Cable						Connector				
□ 2x0.5 mm² (Wiring	diagram 5)				□ Core end-sleeves				
☐ 4x0.5 mm² (Wiring	diagram 1	, 2, 3, 4)				☐ AMP con	nector Mate-N-Lo	k (Wiring diagram	3, 4)	
			□ DEUTSCH connector (Wiring diagram 3, 4)							
						☐ AMP connector 2.8 mm x 0.8 mm (Wiring diagram 1, 2))				
						☐ AMP con	nector 6.3 mm x 0.	8mm (Wiring diag	gram 3, 4)	



Cable cover standard

Product attribute	Cable cover	Part No.
☐ Included in standard delivery	standard 0°	56-992



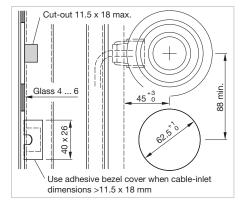
28

Cable cover standard

☐ Specify Part No. in purchase order	standard 45°	56-992A

Additional Information

Additional cable covers are available on request.



Mounting cut-outs [mm]

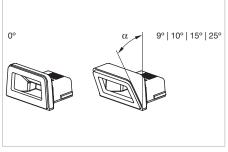


Cable cover funnel

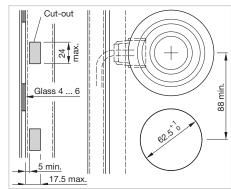
Cable cover	Part No.
□ Funnel 0°	56-992B
□ Funnel 10°	56-992C
□ Funnel 15°	56-992D
□ Funnel 25°	56-992E
□ Funnel 9°	56-992F

Additional Information

- Specify Part No. in purchase order
- Caution: Funnel shaped cable cover Part No. 56-992B, C, D, E, F are not replacable after first mounting

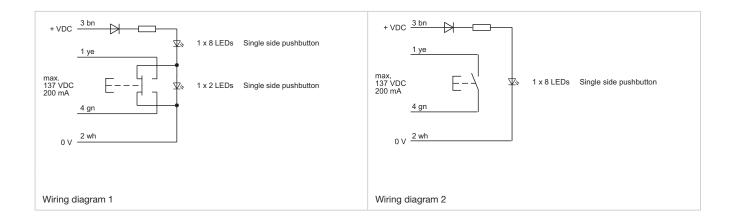






Mounting cut-outs [mm]

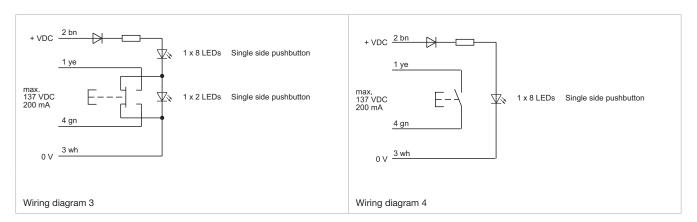
Wiring diagrams

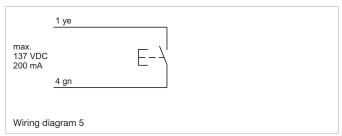


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56 Glass mounting

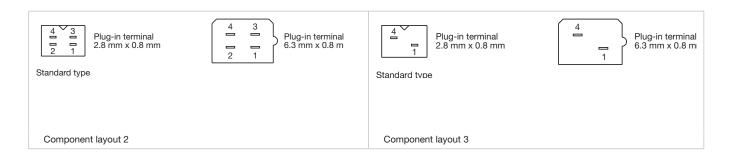
Wiring diagrams



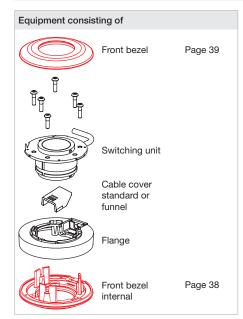


Component layouts

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Double side pushbutton

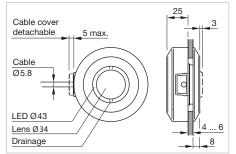


Each part listed below includes all the black components shown in the 3D-drawing.

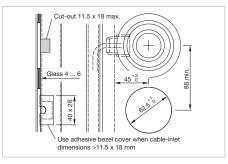
☐ flush, plastic, colour similar RAL

Lens

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Mounting cut-outs [mm]

☐ flush, aluminium



The preview is based on a sample product. This can differ from your current configuration.

Additional Information

- Front bezel Ø 87 mm
- Cable exit left

□ raised, aluminium

- Housing D73 (standard)
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at <u>www.eao.com/downloads</u>

□ green RAL 6024	□ naturel			□ naturel				
□ red RAL 3020	□ green			□ green				
□ blue RAL 5017	□ red			□ red	□ red			
□ yellow RAL 1023	□ blue			□ blue				
□ grey RAL 7040	□ yellow			□ yellow				
				□ black				
Lens marking								
□ without symbol								
□ with symbol aluminium, black anodised, raised (engraved)								
	☐ Symbol No. 00.835	□ Symbol No. 00.836	☐ Symbol No. 00.868	□ Symbol No. 00.869	Symbol No. 40089	□ Symbol No. 60523		
	☐ Symbol No. WC	☐ Symbol No. 60034	☐ Symbol No. 01.590	☐ Symbol No. Wasserhahn	☐ Symbol No. Behinderten			
□ with symbol aluminium, flat (engraved/lasered) □ with symbol plastic, flat (engraved/lasered)		\bigcirc	$\langle \langle \rangle \rangle$	(5)	(5)			
	☐ Symbol No. 00.835	□ Symbol No. 00.836	□ Symbol No. 00.868	Symbol No. 00.869	Symbol No. 40089	□ Symbol No. 60523		
Symbol colour	□ Black			□ white				

56 Glass mounting

Illumination											
☐ without illumination											
□ with illumination	□ 8 gree	en	□ 8 red		□ 8 blue		□ 8	yellow	□ 8 green/2	2 red	□ 8 red/2 green
Supply voltage illumin	nation										
□ 24 VDC		□ 36 VDC		□ 4	18 VDC			☐ 72 VDC		□ 110 V	DC
Tolerance -30 % +29	5%										
Cable length											
□ A = 200 mm	□ A	= 500 mm	[□ A = 1	000 mm			A = 1500 mm		□	mm
Cable and connector	type										
Cable						Connector					
□ 2x0.5 mm² (Wiring o	diagram 5)				☐ Core end	-slee	eves			
☐ 4x0.5 mm² (Wiring o	diagram 1	, 2, 3, 4)				☐ AMP con	nect	or Mate-N-Lok (Wir	ing diagram	3, 4)	
				□ DEUTSCH connector (Wiring diagram 3, 4)							
				□ AMP connector 2.8 mm x 0.8 mm (Wiring diagram 1, 2))							
						☐ AMP connector 6.3 mm x 0.8 mm (Wiring diagram 3, 4)					
						П					



Cable cover standard

Product attribute	Cable cover	Part No.
☐ Included in standard delivery	standard 0°	56-992



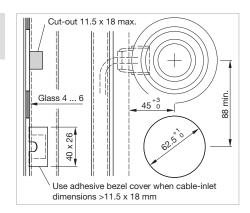
32

Cable cover standard

☐ Specify Part No. in purchase order	standard 45°	56-992A	
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Additional Information

Additional cable covers are available on request.



Mounting cut-outs [mm]

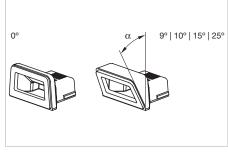


Cable cover funnel

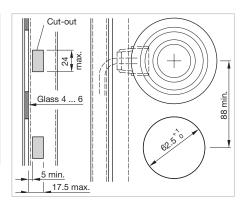
Cable cover	Part No.
□ Funnel 0°	56-992B
□ Funnel 10°	56-992C
□ Funnel 15°	56-992D
□ Funnel 25°	56-992E
□ Funnel 9°	56-992F

Additional Information

- Specify Part No. in purchase order
- Caution: Funnel shaped cable cover Part No. 56-992B, C, D, E, F are not replacable after first mounting

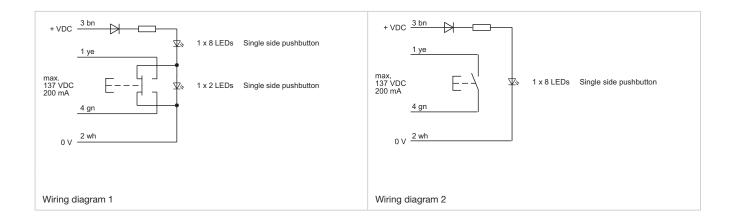






Mounting cut-outs [mm]

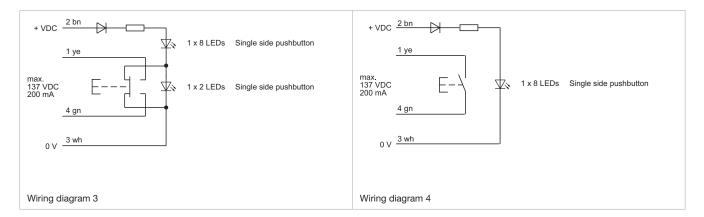
Wiring diagrams

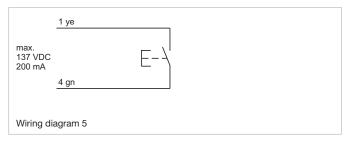


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56 Glass mounting

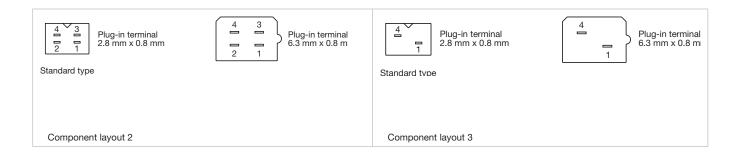
Wiring diagrams



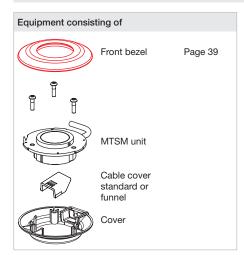


Component layouts

34

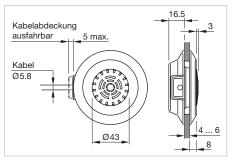


Multi-Ton Sound Modul

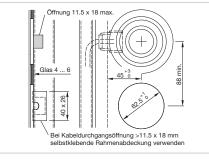


Each part listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Mounting cut-outs [mm]



The preview is based on a sample product. This can differ from your current configuration.

Additional Information

- Front bezel Ø 87 mm
- Cable exit left
- Housing D73 (standard)
- Die Beschreibung der Standard-Töne finden Sie in den «Anwendungsrichtlinien»
- After completion of the interior work, we recommend performing acoustic measurements of the sound level inside or outside the car (TSI PRM)
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at www.eao.com/downloads

Front cap									
□ Plastic black flush			□ Plastic black raised						
Front cap marking									
□ without symbol				□ with symbol					
Volume adjustment									
☐ Manually (3-/5-Tone Sequence	es Module)			□ Automatically	v (6-Tone S	Sequences Module)			
- manaany (e / e Tonie Goddonie				7 (0.101110011)	, (0 .0	requestions in outlies,			
Tone sequence									
□ 3-tone		□ 5-tone				□ 6-tone			
Supply voltage						1			
☐ 24 VDC (5-Tone Sequences N	Module)	□ 1663	3 VDC (3-/6-Tone	e Sequences Module) 🗆 50 143 VDC (3-/		/6-Tone Sequences Module)			
Tolerance ±30 %									
Cable exit									
□ cable exit right				□ cable exit lef	t				
a dable oxit right				_ Gabio Oxition	•				
Cable length									
□ A = 200 mm	□ A = 500 mm		□ A = 1000 mn	n	□ A = 15	00 mm		_ mm	
Cable and connector type									
Cable				Connector					
□ 4x0.5mm²				☐ Core end-sleeves					
				☐ AMP connec	tor Mate-N	I-Lok			
				□ DEUTSCH connector					
				☐ AMP connector 2.8 mm x 0.8 mm					
				□ AMP connector 6.3 mm x 0.8 mm					

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56 Glass mounting



Cable cover standard

Product attribute	Cable cover	Part No.
☐ Included in standard delivery	standard 0°	56-992

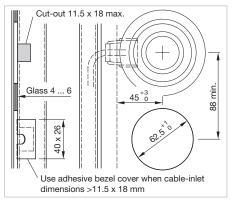


Cable cover standard

☐ Specify Part No. in purchase order	standard 45°	56-992A	
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Additional Information

Additional cable covers are available on request.



Mounting cut-outs [mm]



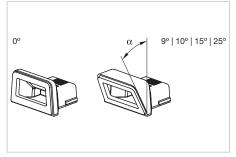
Cable cover funnel

Cable cover	Part No.
☐ Funnel 0°	56-992B
☐ Funnel 10°	56-992C
☐ Funnel 15°	56-992D
☐ Funnel 25°	56-992E
☐ Funnel 9°	56-992F

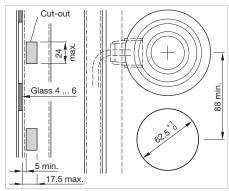
Additional Information

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- Specify Part No. in purchase order
- Caution: Funnel shaped cable cover Part No. 56-992B, C, D, E, F are not replacable after first mounting

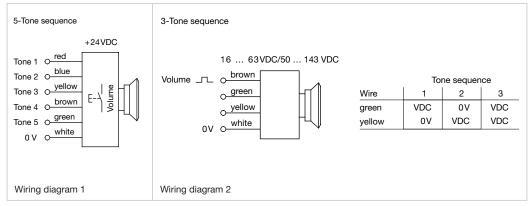


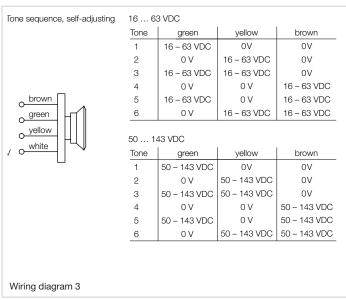
Dimensions [mm]



Mounting cut-outs [mm]

Wiring diagrams



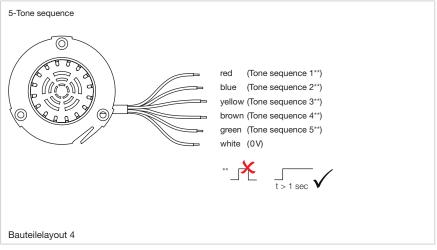


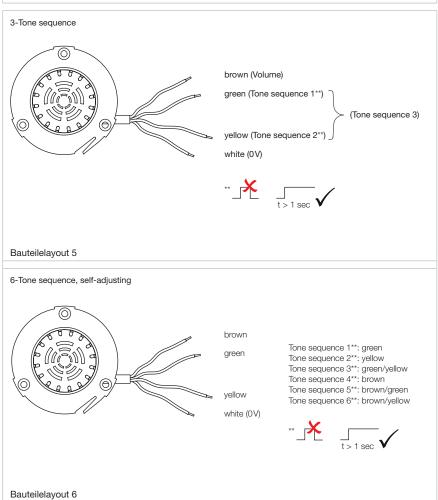
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56 Glass mounting

Component layouts

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Front bezel, Front dimension 87 x 87 mm

Product attribute	Colour similar RAL	Front bezel colour	Front bezel material	Part No.
For single side indicator and single side	RAL 3020	Red	Plastic	56-2200
pushbutton, front mounting	RAL 1023	Yellow	Plastic	56-2400
	RAL 6024	Green	Plastic	56-2500
	RAL 5017	Blue	Plastic	56-2600
	-	Chrome	Metal matt	56-4600

Additional Information

• Special colours for front bezel on request



Front bezel, Front dimension Ø 87 mm

Product attribute	Colour similar RAL	Front bezel colour	Front bezel material	Part No.
For single side indicator and single side pushbut-	RAL 9017	Black	Plastic	56-1000
ton; double side pushbutton external	RAL 3020	Red	Plastic	56-1200
	RAL 1023	Yellow	Plastic	56-1400
	RAL 6024	Green	Plastic	56-1500
	RAL 5017	Blue	Plastic	56-1600
	RAL 7043	Dark grey	Plastic	56-1800
	RAL 7040	Light grey	Plastic	56-1800A
	-	Chrome	Metal matt	56-3600

Additional Information

• Special colours for front bezel on request



Front bezel raised, Front dimension \emptyset 87 mm

Product attribute	Colour similar RAL	Front bezel colour	Front bezel material	Part No.
For single side pushbutton, front mounting, hight 13 mm	RAL 1023	Yellow	Plastic	56-1400.2714
	RAL 7040	Light grey	Plastic	56-1800.2715
	RAL 3020	Red	Plastic	56-1200.2713

Additional Information

Special colours for front bezel on request

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56 Components



Front bezel internal

Dimension	Colour similar RAL	Front bezel colour	Front bezel material	Part No.
Ø 87 mm	RAL 3020	Red	Plastic	56-5200
	RAL 1023	Yellow	Plastic	56-5400
	RAL 6024	Green	Plastic	56-5500
	RAL 5017	Blue	Plastic	56-5600
	RAL 7043	Dark grey	Plastic	56-5800
	RAL 7040	Light grey	Plastic	56-5800A
	-	Chrome	Metal matt	56-7600

Additional Information

• For double side pushbutton



Front bezel for blind and visually impaired persons round, Front dimension \emptyset 87 mm

Marking	Colour similar RAL	Front bezel Colour	Front bezel Material	Part No.
Braille + Open	RAL 3020	Red	Plastic	56-1291
	RAL 2003	Orange	Plastic	56-1391
Braille + Close	RAL 2003	Orange	Plastic	56-1392
Braille + Open	RAL 1023	Yellow	Plastic	56-1491
Braille + Close	RAL 1023	Yellow	Plastic	56-1492
Braille + Open	RAL 5017	Blue	Plastic	56-1691

Additional Information

- For single side pushbutton, double side pushbutton external
- Special colours for front bezel on request



Front bezel for blind and visually impaired persons triangular, Front dimension 106 x 101 mm

Marking	Colour similar RAL	Front bezel Colour	Front bezel Material	Part No.
Braille + SOS	RAL 1023	Yellow	Plastic	56-8000.A
	RAL 1028	Melone yellow	Plastic	56-8000.1A
	RAL 3020	Red	Plastic	56-8000.3A
	RAL 6024	Green	Plastic	56-8000.5A

Additional Information

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- For single side pushbutton
- SOS character height 15 mm, black printed according TSI PRM and braille SOS as per DIN 32976
- Special colours for front bezel on request



Front bezel triangular, Front dimension 106 x 101 mm

Colour similar RAL	Front bezel colour	Material	Part No.
RAL 1023	Yellow	Plastic	56-8400
RAL 1028	Melone yellow	Plastic	56-8700
RAL 3020	Red	Plastic	56-8200
RAL 6024	Green	Plastic	56-8500

Additional Information

- For single side pushbutton
- Special colours for front bezel on request



Cable cover standard

Product attribute	Cablecover	Part No.
☐ Included in standard delivery	standard 0°	56-992

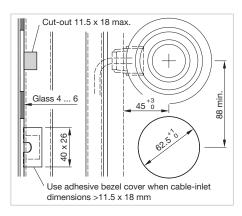


Cable cover standard

pecify Part No. in purchase order	standard 45°	56-992A	
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Additional Information

Additional cable covers are available on request



Mounting cut-outs [mm]

56 Components

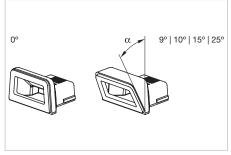


Cable cover funnel

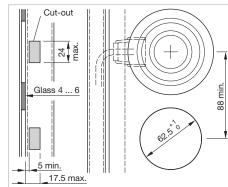
Cable cover	Part No.
□ Funnel 0°	56-992B
☐ Funnel 10°	56-992C
□ Funnel 15°	56-992D
□ Funnel 25°	56-992E
□ Funnel 9°	56-992F

Additional Information

- Specify Part No. in purchase order
- Caution: Funnel shaped cable cover Part No. 56-992B, C, D, E, F are not replacable after first mounting







Mounting cut-outs [mm]



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Mounting set for rear mounting

Product attribute	Part No.
For front panel thickness 2 mm	56-991
For front panel thickness 3 mm	56-991D



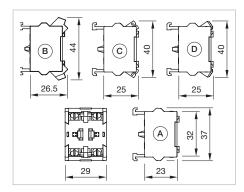
Snap-action switching element with push-in terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
250 V	6 A	1 NO	Gold-plated silver	704.907.1	376
	6 A	1 NC	Gold-plated silver	704.907.2	377
	6 A	2 NO	Gold-plated silver	704.907.3	378
	6 A	2 NC	Gold-plated silver	704.907.4	379
	6 A	1 NC / 1 NO	Gold-plated silver	704.907.5	380
	6 A	1 NO	Silver	704.908.1	376
	6 A	1 NC	Silver	704.908.2	377
	6 A	2 NO	Silver	704.908.3	378
	6 A	2 NC	Silver	704.908.4	379
	6 A	1 NC / 1 NO	Silver	704.908.5	380

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately
- The switching element is used for the lever switch

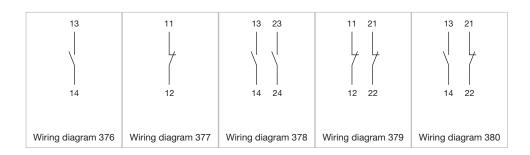


Dimensions [mm]

A = Screw terminal B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



56 Components



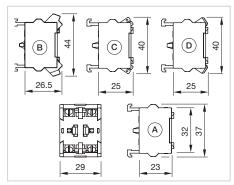
Slow-make switching element with push-in terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
250 V	6 A	1 NO	Gold-plated silver	704.917.1	376
	6 A	1 NC	Gold-plated silver	704.917.2	377
	6 A	2 NO	Gold-plated silver	704.917.3	378
	6 A	2 NC	Gold-plated silver	704.917.4	379
	6 A	1 NC / 1 NO	Gold-plated silver	704.917.5	380
	6 A	1 NO	Silver	704.918.1	376
	6 A	1 NC	Silver	704.918.2	377
	6 A	2 NO	Silver	704.918.3	378
	6 A	2 NC	Silver	704.918.4	379
	6 A	1 NC / 1 NO	Silver	704.918.5	380

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately
- The switching element is used for the lever switch



Dimensions [mm]

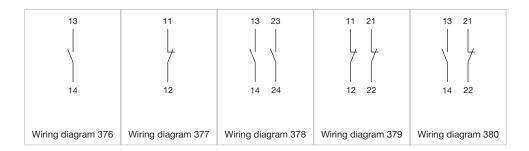
A = Screw terminal

44

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



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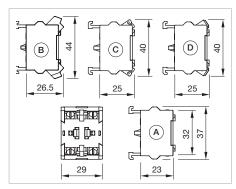
Snap-action switching element with plug-in terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
500 V	6 A	1 NO	Silver	704.905.1	376
	6 A	1 NC	Silver	704.905.2	377
	6 A	2 NO	Silver	704.905.3	378
	6 A	2 NC	Silver	704.905.4	379
	6 A	1 NC / 1 NO	Silver	704.905.5	380

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately
- The switching element is used for the lever switch



Dimensions [mm]

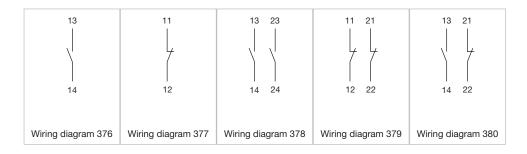
A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



56 Components



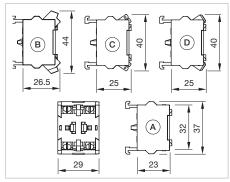
Slow-make switching element with plug-in terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
500 V	6 A	1 NO	Silver	704.915.1	376
	6 A	1 NC	Silver	704.915.2	377
	6 A	2 NO	Silver	704.915.3	378
	6 A	2 NC	Silver	704.915.4	379
	6 A	1 NC / 1 NO	Silver	704.915.5	380

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately
- The switching element is used for the lever switch



Dimensions [mm]

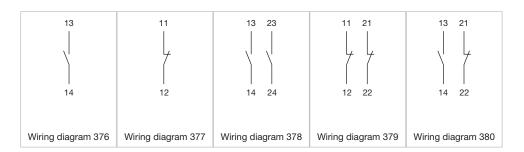
A = Screw terminal

46

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



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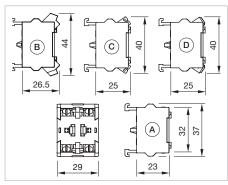
Snap-action switching element with double plug-in terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
500 V	6 A	1 NO	Gold-plated silver	704.901.1/D	376
	6 A	1 NC	Gold-plated silver	704.901.2/D	377
	6 A	2 NO	Gold-plated silver	704.901.3/D	378
	6 A	2 NC	Gold-plated silver	704.901.4/D	379
	6 A	1 NC / 1 NO	Gold-plated silver	704.901.5/D	380
	6 A	1 NO	Silver	704.905.1/D	376
	6 A	1 NC	Silver	704.905.2/D	377
500 V	6 A	2 NC	Silver	704.905.4/D	379
	6 A	1 NC / 1 NO	Silver	704.905.5/D	380

Contacts: NC = Normally closed, NO = Normally open

Additional information

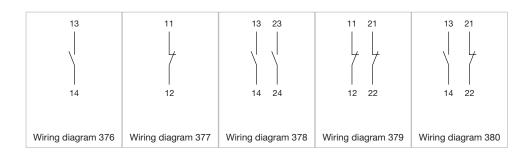
- For the third switching element the terminal marking insert is to be ordered separately
- The switching element is used for the lever switch



Dimensions [mm]

- A = Screw terminal
- B = Push-in terminal (PIT)
- C = Plug-in terminal 6.3 mm x 0.8 mm
- D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



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56 Components



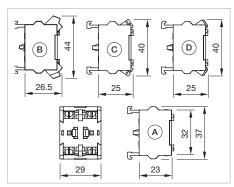
Slow-make switching element with double plug-in terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
500 V	6 A	1 NO	Silver	704.915.1/D	376
	6 A	1 NC	Silver	704.915.2/D	377
	6 A	2 NO	Silver	704.915.3/D	378
	6 A	2 NC	Silver	704.915.4/D	379
	6 A	1 NC / 1 NO	Silver	704.915.5/D	380

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately
- The switching element is used for the lever switch



Dimensions [mm]

A = Screw terminal

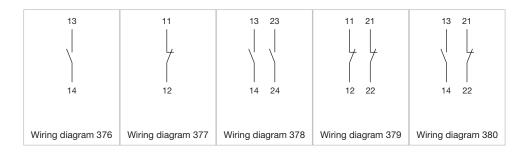
48

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams





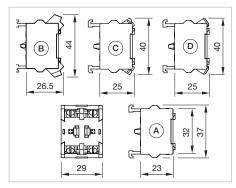
Snap-action switching element with screw terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
500 V	10 A	1 NO	Silver	704.900.1	376
	10 A	1 NC	Silver	704.900.2	377
	10 A	2 NO	Silver	704.900.3	378
	10 A	2 NC	Silver	704.900.4	379
	10 A	1 NC / 1 NO	Silver	704.900.5	380
	10 A	1 NO	Gold-plated silver	704.901.1	376
	10 A	1 NC	Gold-plated silver	704.901.2	377
	10 A	2 NO	Gold-plated silver	704.901.3	378
	10 A	2 NC	Gold-plated silver	704.901.4	379
	10 A	1 NC / 1 NO	Gold-plated silver	704.901.5	380
	10 A	1 NO	Palladium	704.902.1	376
	10 A	1 NC	Palladium	704.902.2	377
	10 A	2 NO	Palladium	704.902.3	378
	10 A	2 NC	Palladium	704.902.4	379
	10 A	1 NC / 1 NO	Palladium	704.902.5	380

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately
- The switching element is used for the lever switch



Dimensions [mm]

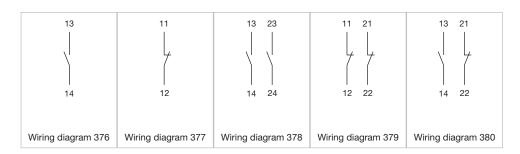
A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



56 Components



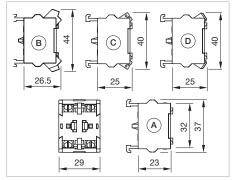
Slow-make switching element with screw terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
500 V	10 A	1 NO	Silver	704.910.1	376
	10 A	1 NC	Silver	704.910.2	377
	10 A	2 NO	Silver	704.910.3	378
	10 A	2 NC	Silver	704.910.4	379
	10 A	1 NC / 1 NO	Silver	704.910.5	380
	10 A	1 NO	Gold-plated silver	704.911.1	376
	10 A	1 NC	Gold-plated silver	704.911.2	377
	10 A	2 NO	Gold-plated silver	704.911.3	378
	10 A	2 NC	Gold-plated silver	704.911.4	379
	10 A	1 NC / 1 NO	Gold-plated silver	704.911.5	380
	10 A	1 NO	Palladium	704.912.1	376
	10 A	2 NO	Palladium	704.912.3	378
	10 A	2 NC	Palladium	704.912.4	379
	10 A	1 NC / 1 NO	Palladium	704.912.5	380

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately
- The switching element is used for the lever switch



Dimensions [mm]

A = Screw terminal

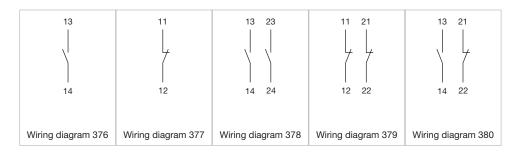
50

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

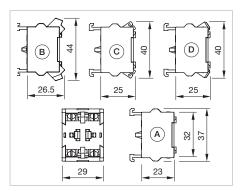




Snap-action switching element for ring cable shoe with screw terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
500 V	10 A	1 NO	Silver	704.900.1B	376
	10 A	1 NC	Silver	704.900.2B	377
	10 A	2 NO	Silver	704.900.3B	378
	10 A	2 NC	Silver	704.900.4B	379
	10 A	1 NC / 1 NO	Silver	704.900.5B	380

Contacts: NC = Normally closed, NO = Normally open

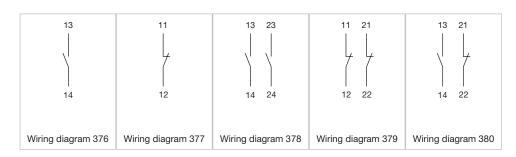


Dimensions [mm]

- A = Screw terminal

- B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



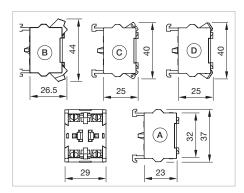
56 Components



Slow-make switching element for ring cable shoe with screw terminal

Switching voltage	Switching current	Contacts	Contact material	Part No.	Wiring diagram
500 V	10 A	1 NO	Silver	704.910.1B	376
	10 A	1 NC	Silver	704.910.2B	377
	10 A	2 NO	Silver	704.910.3B	378
	10 A	2 NC	Silver	704.910.4B	379
	10 A	2 NO	Gold-plated silver	704.911.3B	378
	10 A	2 NC	Gold-plated silver	704.911.4B	379
	10 A	1 NC / 1 NO	Gold-plated silver	704.911.5B	380

Contacts: NC = Normally closed, NO = Normally open



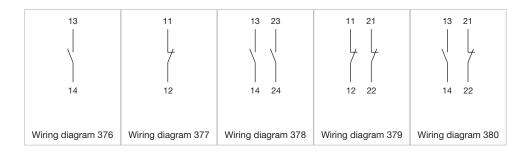
Dimensions [mm]

A = Screw terminal

52

- B = Push-in terminal (PIT)
- C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



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Mounting



Bezel cover

Product attribute	Dimension	Material	Colour	Mounting type	Part No.
0.8 mm thick	40 x 26 mm	Aluminium	natur eloxiert	selbstklebend	56-993



Dismantling tool

Product attribute	Part No.	
For front bezel	56-998	



Anti-slip mat

Diversity	0-1	Deat No.
Dimension	Colour	Part No.
100 x 100 mm	white	56-999

Additional Information

- For dismounting of ront bezel
- 3 mm thick



Counterpart set for plug-in housing 2.8 mm x 0.8 mm

Manage	Door door a statification	Deat No.
Material	Product attribute	Part No.
Metal/Plastic	Set of 10 pieces	56-994



Counterpart set for plug-in housing 6.3 mm x 0.8 mm

Material	Product attribute	Part No.
Metal/Plastic	Set of 10 pieces	56-945



Sealing black, for glass mounting

Material	Part No.
Rubber	56-990

Indicator

Material

Connection cable

Halogene free plastic mixture

Сар

Plastic, as per UL94 V0

Frontrahmen

Zinc matt chromium plated or plastic, as per UL94 V0

Housing

Plastic, as per UL94 V0

Mechanical characteristics

Terminals

Cable 2-poles with plug-in connection 2,8 mm x 0,8 mm Flat plug-in housing rectangular, AMP-Nr. 626 057-0

Counterpart to AMP Flat plug-in housing (not part of delivery)
Receptacle housing AMP No. 626 056-0

Receptacle socket AMP No. 160 655-2

Wire cross-section 0.24 mm²

Wire length

200 mm

Fixing screws

For front mounting M4 x 8 mm

Tightening torque

For screws for front mounting 0,8 Nm...1 Nm Key (mounting and dismantling) Hexagon socket wrench size 2.5 mm

Electrical characteristics

Illumination

54

15 LED green, red, yellow, white or blue Supply voltage 24, 110 VDC
Tolerance -30 % ... +25 %
Current consumption < 50 mA
Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

Units compliant to

EN 61058-1

EN 50081-1

EN 50082-1

EN 50082-2

EN 50121-3-2

EN 50155

Environmental conditions

Storage temperature

-45°C...+90°C

Operating temperature

-40°C...+80°C

Protection degree

Front side IP67 Rear side IP65

Climate resistance

Damp heat, cyclic

96 hours, +25°C/97%, +55°C/93% relative humidity,

as per EN IEC 60068-2-30

Damp heat, state

56 days, +40 °C/93 % relative humidity, as per EN IEC 60068-2-78

Rapid change of temperature

100 cycles, -40 °C ... +80 °C, as per EN IEC 60068-2-14

Shock resistance

(semi-sinusoidal)

max. 250 m/s², pulse width 11 ms, as per EN IEC 60068-2-27

Vibration resistance

(sinusoidal)

max. 100 m/s² at 10 Hz... 2000 Hz, as per EN IEC 60068-2-6

Approvals

Approbations

CQC

Conformities

CE

Pushbutton

Switching system

Self-cleaning, double-breaking snap-action switching system 1 Normally Open contact, momentary function

Material

Connection cable

Halogene free plastic mixture

Lens

Aluminium anodized or plastic, as per UL94 V0

Front bezel

Zinc matt chromium plated or plastic, as per UL94 V0

Actuator

Plastic, as per UL94 V0

Material of contact

Gold plated silver

Mechanical characteristics

Terminals

Cable 4-poles with plug-in connection $2.8\,\mathrm{mm}$ x $0.8\,\mathrm{mm}$ Flat plug-in housing rectangular, AMP No. 626 057-0

Counterpart to AMP Flat plug-in housing

(not part of delivery)

Receptacle housing AMP No. 626 056-0 Receptacle socket AMP No. 160 655-2

Other version:

Cable 4 poles with plug-in connection 6.3 mm x 0.8 mm Flat plug-in housing rectangular, AMP No. 180 901-0

Counterpart to AMP Flat plug-in housing

(not part of delivery)

Receptacle housing AMP No. 180 900-0 Receptacle socket AMP No. 160 860-2

Wire cross-section

0.5 mm²

Wire length

200 mm

Fixing screws

Single side pushbutton for front mounting M4 x 8mm Double side pushbutton for glass mounting M4 x 25 mm Single side pushbutton for glass mounting M4 x 20 mm (for glass \geq 5 mm)

Single side pushbutton for glass mounting M4 x 16 (for 4 mm glass)

Tightening torque

Screws for single side pushbutton for front mounting

0.80 Nm ... 1 Nm

Screws for single side- and double side pushbutton for

glass mounting 0.5 Nm

Key (mounting and dismantling)

Hexagon socket wrench size 2.5 mm

Actuating force

6N...12N

Actuating travel

~0.5 mm

Mechanical lifetime

2 million cycles operation

Electrical characteristics

Illumination

Ready status, 8 LED green, red or yellow Optical switch on status, 2 LED green or red

(3 LED for special versions)

Supply voltage 24, 36, 48, 72, 110 VDC

Tolerance +25 % ... -30 %

Current consumption < 50 mA

Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumina-

tion

Units compliant to

EN 14752

EN 50155

EN 61000-6-2

EN 61000-6-3

EN 61058-1

Switching voltage and switching current

min. 5 VDC, 5 mA

max. 137 VDC/VAC, max. 200 mA

Electric strength

4000 VAC, 50 Hz, 1 minute, between all terminals and mounting plate/front element

55

Environmental conditions

Storage temperature

-45°C...+90°C

Operating temperature

-40°C...+80°C

Protection degree

Front side IP67 Rear side IP65

Climate resistance

Damp heat, cyclic 96 hours, +25°C/97%, +55°C/93% relative humidity, as per EN IEC 60068-2-30

Damp heat, state

56 days, +40 °C/93 % relative humidity, as per EN IEC 60068-2-78

Rapid change of temperature

100 cycles, -40 °C ... +80 °C, as per EN IEC 60068-2-14

Shock resistance

(semi-sinusoidal)

max. 250 m/s², pulse width 11 ms, as per EN IEC 60068-2-27

Vibration resistance

(sinusoidal)

max. 100 m/s² at 10 Hz...500 Hz, as per EN IEC 60068-2-6

Approvals

Approbations

CQC

TSI PRM (EBC)

Conformities

CE

Pushbutton 56 Access

Single side pushbutton with M8×1 connector, 6-pin

Switching system

The Series 56 Access pushbutton is equipped with an electronic high side switch, is short circuit proof and overload protected. In case of over current the switch opens automatically (protection against destruction). The pushbutton is not potential-free.

Material

Lens

Aluminium, Symbol Plastic

Front bezel

Plastic

Switch housing

Plastic

Mechanical characteristics

Terminals

56

Device plug M8×1, 6-pin (according to EN 61076-2-104) For locking the cable plug connection, the thread ring "hand-tight" (approx. 0.5 Nm) tightened. Suitable for screw locking (cable side), Snap-in locking (cable side) with reduced IP protection class.

Cable recommendation

6-pole with coupling socket M8×1 straight, according to EN 61076-2-104 and EN 45545 for railway application.

Fixing screws

Single side pushbutton for front mounting M4 \times 8 mm

Tightening torque

Screws for one-sided button for front mounting 0.8...1 Nm

Key (mounting and dismantling)

Inside 6-kt Width across flats 2.5 mm

Actuating force

max. 15 N

Actuating travel

~0.5 mm

Mechanical life

>5 million switching cycles

Electrical characteristics

Illumination

Standby, 6 lighting points green

6 lighting points red

Optical switching indicator (wiring diagram according to EN 14752)

Operating voltage 24 VDC

Tolerance range –30 % ... +25 %

Current consumption < 50 mA

Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination.

Devices correspond

EN 50155

EN 14752

EN 45545

EN 61373

EMV

EN 61000-6-2

EN 61000-6-3

EN 50121-3-2

ESD according to EN 61000-4-2 ±20 kV

Regulation No. EMV 06 (radio compatibility of Deutsche Bahn)

Symbols

TSI PRM (EBC)

Operating voltage

10-30 VDC

Switching current

max. 250 mA min. 10 µA

Quiescent current

<10 µA @ 24 VDC

Note: Only pin 1 (VDC) and pin 4 (0 V) connected

Electric strength

4000 VAC, 50 Hz, 1 minute, between all terminals and mounting plate/front element

Ambient conditions

Storage temperature

-45°C...+90°C

Operating temperature

-45°C...+85°C

Protection degree

IP66, IP67 front side

IP65 rear side with device plug M8×1 straight, 6-pin with snap-in

locking (cable side)

IP67 rear side with device plug M8×1 straight, 6-pin with screw

locking (cable side)

Impact resistance

IK07

Climate resistance

Damp heat, cyclic

48 hours, +25 °C/97 %, +55 °C/93 % relative humidity,

according to EN IEC 60068-2-30

Damp heat, state

56 days, +40 $^{\circ}\text{C}/93\,\%$ relative humidity,

according to EN IEC 60068-2-78

Rapid change of temperature

5 cycles, -45 °C...+90 °C, according to EN IEC 60068-2-14

Shock resistance

Semi-sinusoidal

 $500\, m/s^2,$ pulse width 11 ms, 6 shocks/axis, according to

DIN EN 60068-2-27

Vibration strength

(sinusoidal)

max. 100 m/s2 from 10 Hz ... 500 Hz, according to

EN IEC 60068-2-6

Broad band noise according to EN 61373 class 1B

 $7.9 \; m/s^2 \, 5 \, h$ per axis, according to EN IEC 60068-2-6

Approvals

Approbations

TSI PRM (EBC)

Conformities

CE

2014/30/EU (EMC)

1300/2014/EU (TSI PRM)

2011/65/EU (RoHS)

Pushbutton 56 Universal

Single side pushbutton with M8×1 connector, 6-pin

Switching system

The Series 56 Universal pushbutton is equipped with an electronic high side switch, is short circuit proof and overload protected. In case of over current the switch opens automatically (protection against destruction). The pushbutton is not potential-free.

Material

Lens

Aluminium, Symbol Plastic

Front bezel

Plastic

Switch housing

Plastic

Mechanical characteristics

Terminals

Device plug M8×1, 6-pin (according to EN 61076-2-104) For locking the cable plug connection, the thread ring "hand-tight" (approx. 0.5 Nm) tightened. Suitable for screw locking (cable side), Snap-in locking (cable side) with reduced IP protection class.

Cable recommendation

6-pole with coupling socket M8×1 straight (according to EN 61076-2-104)

Fixing screws

Single side pushbutton for front mounting M4 × 8 mm

Tightening torque

Screws for one-sided button for front mounting 0.8...1 Nm

Key (mounting and dismantling)

Inside 6-kt Width across flats 2.5 mm

Actuating force

max. 15 N

Actuating travel

~0.5 mm

58

Mechanical life

>5 million switching cycles

Electrical characteristics

Illumination

Standby, 6 lighting points green

6 lighting points red

Optical switching indicator (wiring diagram according to EN 14752)

Operating voltage 24 VDC

Tolerance range -30 % ... +25 %

Current consumption < 50 mA

Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination.

Devices correspond

EN 50155

EN 14752

EN 45545

EN 61373

EMV

EN 61000-6-2

EN 61000-6-3

EN 50121-3-2

ESD according to EN 61000-4-2 ±20 kV

Regulation No. EMV 06 (radio compatibility of Deutsche Bahn)

Operating voltage

10-30VDC

Switching current

max. 250 mA

min. 10 µA

Quiescent current

 $<10\,\mu A$ @ 24 VDC

Note: Only pin 1 (VDC) and pin 4 (0 V) connected

Electric strength

4000 VAC, 50 Hz, 1 minute, between all terminals and mounting plate/front element

Ambient conditions

Storage temperature

-45°C...+90°C

Operating temperature

-45°C...+85°C

Protection degree

IP66, IP67 front side

IP65 rear side with device plug M8×1 straight, 6-pin with snap-in locking (cable side)

IP67 rear side with device plug M8×1 straight, 6-pin with screw locking (cable side)

Impact resistance

IK07

Climate resistance

Damp heat, cyclic

48 hours, $+25\,^{\circ}\text{C}/97\,\%$, $+55\,^{\circ}\text{C}/93\,\%$ relative humidity, according to EN IEC 60068-2-30

Damp heat, state

56 days, +40 °C/93 % relative humidity, according to EN IEC 60068-2-78

Rapid change of temperature

5 cycles, -45 °C...+90 °C, according to EN IEC 60068-2-14

Shock resistance

Semi-sinusoidal 500 m/s², pulse width 11 ms, 6 shocks/axis, according to DIN EN 60068-2-27

Vibration strength

(sinusoidal)

max. 100 m/s 2 from 10 Hz ... 500 Hz, according to EN IEC 60068-2-6

Broad band noise according to EN 61373 class 1B 7.9 m/s² 5 h per axis, according to EN IEC 60068-2-6

Approvals

Conformities

CE

2014/30/EU (EMC) 2011/65/EU (RoHS)

Multi-Tone Sound Module

Material

Connection cable

Halogene free plastic mixture Housing switching unit and speaker cap plastic, as per UL94 V0

Front bezel

Zinc matt chromium plated or plastic, as per UL94 V0

Housing

Plastic

Mechanical characteristics

Terminals

200 mm with crimped metal sleeves

3-tone sequences module: 4 x 0.5 mm² or 4 x 0.25 mm²

5-tone sequences module: $6 \times 0.5 \, \text{mm}^2$ 6-tone sequences module: $6 \times 0.5 \, \text{mm}^2$

Fixing screws

For front mounting M4 x 8 mm (3x)

Tightening torque

For screws for front mounting 0.80 Nm...1 Nm Key (mounting and dismantling) Hexagon socket wrench size 2.5 mm

Electrical characteristics

Units compliant to

EN 61000-6-2

EN 61000-6-3

EN 50121-3-2

Operating voltage/-current

Operation voltage 24 VDC $\pm 30\,\%$, 5-tone sequences module Operation voltage range 16...63 / 50...143 VDC, 3-tone sequences module /6-tone sequences module

Current rating < 50 mA depending on voltage and volume

Electric strength

4000 VAC, 50 Hz, 1 min, between all terminals and mounting plate/front element

Acoustic characteristics

5-tone sequences:

The volume of each tone sequence is configured in five steps by 6 dB, adjustable from the rear side. All sounds are controlled using a wire cable.

The tones can be played in any sequence at different volumes, durations and intervals.

3-tone sequences:

The volume of each tone sequence can be changed in 17 steps of 1.5 dB each, by means of the tone-editing programme or "external" by wire. Tone sequence 1 and 2 are being activated by wire, whereby sequence 3 is being activated binarily. All sounds are controlled using a wire cable. In order to symplify the definition of the Multi-Tone Sound Module, a "volume control box" is at EAO customer's disposal as an accessory.

The tones can be played in any sequence at different volumes, durations and intervals.

6-tone sequences:

The «MTSM self-adjusting» offers six individual tone sequences that can be emitted at different frequencies, number of repeats and durations. The volume can be pre-set so it is always a specified number of decibels above the ambient noise. The six tone sequences are controlled in a binary manner, via three wires.

Frequency range

 $500\,Hz\dots3000\,Hz\pm1\,\%$

480 Hz... 3000 Hz ± 1 % (6-tone sequences module)

Measuring window (6-tone sequences module)

Time period until sound output 750 ms

Time range of tone sequence

0...∞ (endless)

Acoustic pressure level

3-/5-tone sequences module:
90 dB (A) 10 cm @ 1 kHz
Level 17 for 3-tone sequences module
Level 5 for 5-tone sequences module
6-tone sequences module:
Max. 100 db @ 10 cm @ 1 kHz

Self-adjusting Modul:

60

Max. 72 dB (A) @ 1.5 m @ 1 kHz Max. 95.52 dB (A) @ 0.1 m @ 1 kHz

Environmental conditions

Storage temperature

-45°C...+90°C

Operating temperature

-40°C...+85°C

Protection degree

Front side IP69K Rear side IP65

Climate resistance

Damp heat, cyclic 48 hours, $+25\,^{\circ}\text{C}/97\,\%$, $+55\,^{\circ}\text{C}/93\,\%$ relative humidity, as per EN IEC 60068-2-30

Saline mist 96 hours, as per EN IEC 60068-2-11

Shock resistance

(semi-sinusoidal)

max. 50 m/s², pulse width 30 ms, as per EN 61373

Vibration resistance

Max. 7.9 m/s² at 10 Hz... 150 Hz, as per EN 61373

Approvals

Approbations

CQC TSI PRM

Conformities

CE

Flashing warning beacon

Material

Connection cable

Halogene free plastic mixture

Lens

Plastic, as per UL94 V0

Front bezel

Zinc matt chromium plated or plastic, as per UL94 V0

Actuator

Plastic, as per UL94 V0

Mechanical characteristics

Terminals

Cable 2-poles with plug-in connection 2.8 mm x 0.8 mm Flat plug-in housing rectangular, AMP No. 626 057-0

Counterpart to AMP Flat plug-in housing (not part of delivery)
Receptacle housing AMP No. 626 056-0

Receptacle nodsing Alvin No. 020 050-0

Wire cross-section

0.24 mm²

Wire length

200 mm

Fixing screws

For front mounting M4 x 8 mm

Tightening torque

For screws for front mounting $0.80\,\mathrm{Nm}\dots1\,\mathrm{Nm}$

Key (mounting and dismantling) Hexagon socket wrench size 2.5 mm

Electrical characteristics

Illumination

3 LED white

Supply voltage 24 VDC ±30 %
Current consumption < 500 mA

Blitzfrequenz 1 Hz

Impulsdauer 50 ms

Pausendauer 950 ms

Einschaltdauer 5 %

Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

Units compliant to

EN 61000-6-2 EN 61000-6-3

EN 50121-3-2

Environmental conditions

Storage temperature

-45°C...+90°C

Operating temperature

-40°C...+80°C

Protection degree

Front side IP67 Rear side IP65

Climate resistance

Damp heat, cyclic

96 hours, +25 $^{\circ}\text{C}/97\,\%,$ +55 $^{\circ}\text{C}/93\,\%$ relative humidity,

as per EN IEC 60068-2-30

Damp heat, state

56 days, +40 °C/93 % relative humidity, as per EN IEC 60068-2-78

Rapid change of temperature

100 cycles, -40 °C ... +80 °C, as per EN IEC 60068-2-14

Shock resistance

(semi-sinusoidal)

max. 250 m/s², pulse width 11 ms, as per EN IEC 60068-2-27

Vibration resistance

(sinusoidal)

max. 100 m/s² at 10 Hz... 2000 Hz, as per EN IEC 60068-2-6

Approvals

Approbations

CQC

Conformities

CE

Slow-make switching element for lever switch

When using the switching element, the application guidelines must be observed.

Switching system

The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening.

Slow-make contacts with forced action are ideal for high switch ratings.

Up to three switching elements can be snapped to each actuator.

For the emergency-stop switch use the slow-make switching element (max. 2).

Special requirements for positive-opening auxiliary current switches

Positive opening travel Emergency stop 12.5 mm

Minimum force Emergency stop 50 N (actuating force at

which is safely switched)

Max. travel Emergency stop 12.5 mm

Material

Housing

The indicator lights/switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to UL50E.

Material of contact

Hard silver, gold-silver, silver-palladium (for aggressive atmospheres)

Switch housing

Plastic

Mechanical characteristics

Terminals

62

Screw terminal

- max. wire cross section 2.5 mm² 10 mm - stripping length wire - max. number of wire 2

- max. strand cross section 1.5 mm²

- stripping strands use stranded wires only

with wire end ferrules of 10 mm length

- max. number of strands 2

Only one polarity is allowed on each side when wiring.

Plug-in terminal 1 x 6.3 mm x 0.8 mm or 2 x 2.8 mm x 0.8 mm For devises with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

Double plug-in terminal 2 x 6.3 mm x 0.8 mm

For units with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

Tightening torque

Screws at the plastic mounting flange max. 0.4...0.5 Nm Screws at the metal mounting flange max. 0.25...0.3 Nm Screws at switching element max. 0.8 Nm

Actuating force

1 Normally closed 2 N

1 Normally open 3 N

Actuating travel

Approx. 5.8 mm ±0.2 mm

Mechanical lifetime

(with 1 switching element) Pushbutton maintained action Pushbutton momentary action Selector switch maintained action 1.25 million cycles of operation Selector switch momentary action Emergency-stop switch Keylock switch maintained action

Keylock switch momentary action

1.5 million cycles of operation 3 million cycles of operation 2.5 million cycles of operation 50 000 cycles of operation 25 000 cycles of operation 50 000 cycles of operation

Electrical characteristics

Standards

The switches comply with the "Standards for low-voltage switching devices" DIN EN 60947-5-1

Rated Insulation Voltage Ui

500 V, as per DIN EN 60947-5-1

Rated impulse withstand voltage Uim

4kV, according to EN/IEC 60947-5-1

Electrical life

50 000 cycles of operation

Thermal current I_{th}

Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.

10 A

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Switching voltage and switching current

as per EN IEC 60947-5-1

voltage	DC13	AC15
24 V	4.0 A	10.0 A
48 V	_	10.0 A
60 V	1.5 A	_
110 V	1.0 A	_
120 V	_	10.0 A
230 V	0.4 A	7.0 A
400 V	0.2 A	5.0 A
500 V	0.15A	4.0 A

Recommended minimum operational data

Gold-silver contacts:

Voltage 24 VDC 110 VDC Current 5 mA 2 mA

Hard silver contacts:

Voltage 24 VDC 110 VDC Current 50 mA 10 mA

Protection class

Indicators and switches, fit for mounting into devices with protection class II

Ambient conditions

Storage temperature

-40°C...+85°C

Operating temperature

-40°C...+55°C

(other temperatures on request)

Protection degree

IP00

Shock resistance

(single impacts, semi-sinusoidal)

300 m/s² pulse width 11 ms, as per EN IEC 60068-2-27

Vibration resistance

(sinusoidal)

 $100\,\text{m/s}^2$ at $10\,\text{Hz}\dots500\,\text{Hz},$ amplitude 0.75 mm, as per EN IEC 60068-2-6

Pollution degree

3

Climatic resistance

Relative humidity

10 ... 95 % non-condensing

Approvals

Conformities

CE

2014/35/EU (LVD) 2011/65/EC (RoHS)

Snap-action switching element for lever switch

When using the switching element, the application guidelines must be observed.

Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.

Up to three switching elements can be snapped to each actuator.

Snap-action switching elements are not permissible for emergencystop pushbuttons!

Material

Housing

The indicator lights/switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to UL50E.

Material of contact

Hard silver, gold-silver, silver-palladium (for aggressive atmospheres)

Switch housing

Plastic

Mechanical characteristics

Terminals

Screw terminal

max. wire cross section
 stripping length wire
 max. number of wire

2.5 mm²
10 mm
2

- max. strand cross section

- stripping strands

use stranded wires only with wire end ferrules of 10 mm length

1.5 mm²

- max. number of strands

Only one polarity is allowed on each side when wiring.

Plug-in terminal 1 x $6.3 \, \text{mm} \times 0.8 \, \text{mm}$ or 2 x $2.8 \, \text{mm} \times 0.8 \, \text{mm}$ For devises with plug-in connections, insulating sleeves are required and the mounting cut-out of $65 \, \text{mm}$ must be observed.

Double plug-in terminal 2 x 6.3 mm x 0.8 mm

For units with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

Tightening torque

Screws at the plastic mounting flange max. 0.4–0.5 Nm Screws at the metal mounting flange max. 0.25–0.3 Nm Screws at switching element max. 0.8 Nm

Actuating force

1 Normally closed 1.9 N 1 Normally open 2 N

Actuating travel

Approx. $5.8 \, \text{mm} \pm 0.2 \, \text{mm}$

Mechanical lifetime

(with 1 switching element)

Pushbutton maintained action
Pushbutton momentary action
Selector switch maintained action
Selector switch momentary action
Keylock switch momentary action

1.5 million cycles of operation
2.5 million cycles of operation
3 million cycles of operation
2.5 million cycles of operation
2.5 million cycles of operation
3 million cycles of operation
5.0000 cycles of operation
2.5 million cycles of operation
3 million cycles of operation
5.0000 cycles of operation
2.5 million cycles of operation
3 million cycles of operation
5.0000 cycles of operation

Electrical characteristics

Standards

The switches comply with the "Standards for low-voltage switching devices" DIN EN 60947-5-1

Rated Insulation Voltage Ui

500 V, as per DIN EN 60947-5-1

Rated impulse withstand voltage Uim

4kV, according to EN/IEC 60947-5-1

Electrical life

50 000 cycles of operation

Thermal current Ith

Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.

10A

64

Switching voltage and switching current

as per EN IEC 60947-5-1

voltage	DC13	AC15
24 V	2.5 A	6.0 A
48 V	_	6.0 A
60 V	0.8A	_
110 V	0.6 A	_

120 V	_	6.0 A
230 V	0.2 A	6.0A
400 V	0.15A	4.0 A
500 V	0.07A	2.5A

Recommended minimum operational data

Gold-silver contacts:

Voltage 5VDC 24VDC 110VDC Current 15 mA 5 mA 2 mA

Hard silver contacts:

Voltage 24 VDC 110 VDC Current 50 mA 10 mA

Protection class

Indicators and switches, fit for mounting into devices with protection class II.

Ambient conditions

Storage temperature

-40°C...+85°C

Operating temperature

-40°C...+55°C

(other temperatures on request)

Protection degree

IP00

Shock resistance

(single impacts, semi-sinusoidal)

 $300\,\text{m/s}^2$ pulse width 11 ms, as per DIN EN 60068-2-27

Vibration resistance

(sinusoidal)

 $100\,\text{m}11/\text{s}^2$ at $10\,\text{Hz}\dots500\,\text{Hz}$, amplitude 0.75 mm, as per DIN EN 60068-2-6

Pollution degree

3

Climatic resistance

Relative humidity

10 ... 95 % non-condensing

Approvals

Conformities

CE

2014/35/EU (LVD) 2011/65/EC (RoHS)

Slow-make switching element PIT for lever switch

When using the switching element, the application guidelines must be observed.

Switching system

The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening.

Slow-make contacts with forced action are ideal for high switch ratings.

Up to three switching elements can be snapped to each actuator.

For the emergency-stop pushbutton use the slow-make switching element (max. 2).

Special requirements for positive-opening auxiliary current switches

Positive opening travel Emergency stop 12.5 mm

Minimum force Emergency stop 50 N (actuating force at

which is safely switched)

Max. travel Emergency stop 12.5 mm

Material

Housing

The indicator lights/switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to UL50E.

Material of contact

Hard silver and gold-silver

Switch housing

Plastic

Mechanical characteristics

Terminals

PIT push-in terminal

max. wire cross section 1.0 mm²
stripping length wire 8 mm
max. number of wire 2

- max. strand cross section 0.75 mm²

- stripping strands use stranded wires only with wire end ferrules

of 8 mm length

- max. number of strands 2

Only one polarity is allowed on each side when wiring.

Tightening torque

Screws at the plastic mounting flange max. 0.4-0.5 Nm Screws at the metal mounting flange max. 0.25-0.3 Nm

Actuating force

1 Normally closed 2 N

1 Normally open 3 N

Actuating travel

approx. $5.8 \, \text{mm} \pm 0.2 \, \text{mm}$

Mechanical lifetime

(with 1 switching element)
Pushbutton maintained action
Pushbutton momentary action
Selector switch maintained action
Selector switch momentary action
Emergency-stop switch
Keylock switch maintained action

Keylock switch momentary action

1.5 million cycles of operation
3 million cycles of operation
1.25 million cycles of operation
2.5 million cycles of operation
50 000 cycles of operation
25 000 cycles of operation
50 000 cycles of operation
50 000 cycles of operation

Electrical characteristics

Standards

The switches comply with DIN EN 60947-1/EN IEC 60947-5-1

Rated Insulation Voltage Ui

500 V, as per DIN EN 60947-5-1

Rated impulse withstand voltage U_{imp}

4kV, according to EN/IEC 60947-5-1

Electrical life

50 000 cycles of operation

Thermal current In

Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.

Switching voltage and switching current

as per DIN EN 60947-5-1

voltage	DC13	AC15
24 V	4,0 A	6,0 A
48 V	_	6,0 A
60 V	1,5 A	_
110 V	1,0A	_
120 V	_	6,0 A
230 V	_	7.0 A

Recommended minimum operational data

Gold-silver contacts: Voltage 24 VDC Current 5 mA

Hard silver contacts: Voltage 24 VDC Current 50 mA

Protection class

Indicators and switches, fit for mounting into devices with protection class II

Ambient conditions

Storage temperature

-40°C...+85°C

Operating temperature

-40°C...+55°C

(other temperatures on request)

Protection degree

IP20

Shock resistance

(single impacts, semi-sinusoidal) 300 m/s² pulse width 11 ms, as per DIN EN 60068-2-27

Pollution degree

3

Climatic resistance

Relative humidity

10 ... 95 % non-condensing

Approvals

Conformities

CE

2014/35/EU (LVD) 2011/65/EC (RoHS)

Snap-action switching element PIT for lever switch

When using the switching element, the application guidelines must be observed.

Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.

Up to three switching elements can be snapped to each actuator.

Snap-action switching elements are not permissible for emergency stop pushbuttons!

Mechanical characteristics

Terminals

PIT push-in terminal

max. wire cross section 1.0 mm²
 stripping length wire 8 mm
 max. number of wire 2

- max. strand cross section 0.75 mm²

- stripping strands use stranded wires only

with wire end ferrules of 8 mm length

- max. number of strands 2

Only one polarity is allowed on each side when wiring.

Material

Housing

The indicator lights/switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to UL50E.

Material of contact

Hard silver and gold-silver

Switch housing

Plastic

Tightening torque

Screws at the plastic mounting flange max. 0.4–0.5 Nm Screws at the metal mounting flange max. 0.25–0.3 Nm

Actuating force

- 1 Normally closed 1.9 N
- 1 Normally open 2 N

Actuating travel

Approx. $5.8 \, \text{mm} \pm 0.2 \, \text{mm}$

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Mechanical lifetime

(with 1 switching element)
Pushbutton maintained action
Pushbutton momentary action
Selector switch maintained action
Selector switch momentary action
Keylock switch maintained action
Keylock switch momentary action

1.5 million cycles of operation3 million cycles of operation1.25 million cycles of operation2.5 million cycles of operation25 000 cycles of operation50 000 cycles of operation

Ambient conditions

Storage temperature

-40°C...+85°C

Operating temperature

-40°C...+55°C

(other temperatures on request)

Protection degree

IP20

Shock resistance

(single impacts, semi-sinusoidal)

300 m/s² pulse width 11 ms, as per DIN EN 60068-2-27

Vibration resistance

(sinusoidal)

 $100\,\text{m/s}^2$ at $10\,\text{Hz}\dots500\,\text{Hz},$ as per DIN EN 60068-2-6 and

EN 61373 Increased broad band noise, class 1B

Pollution degree

3

Climatic resistance

Relative humidity

10 ... 95 % non-condensing

Approvals

Conformities

CE

2014/35/EU (LVD) 2011/65/EC (RoHS)

Electrical characteristics

Standards

The switches comply with DIN EN 60947-1/DIN EN 60947-5-1

Rated Insulation Voltage Ui

500 V, as per DIN EN 60947-5-1

Rated impulse with stand voltage \mathbf{U}_{imp}

4kV, according to EN/IEC 60947-5-1

Electrical life

50000 cycles of operation

Thermal current Ith

Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.

6A

Switching voltage and switching current

as per DIN EN 60947-5-1

voltage	DC13	AC15
24V	2,5 A	6,0 A
48 V	_	6,0 A
60 V	0,8 A	_
110 V	0,6 A	_
120 V	_	6,0 A
230 V	_	6,0 A

Recommended minimum operational data

Gold-silver contacts:

Voltage 24 VDC Current 5 mA

Hard silver contacts:

Voltage 24 VDC Current 50 mA

Protection class

Indicators and switches, fit for mounting into devices with protection class II

56 Application guidelines

Suppressor circuits

When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

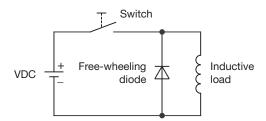
Fig. 1 shows an inductive load with a free-wheeling diode connected in parallel. This free-wheeling diode provides a path for the inductor current to flow when the current is interrupted by the switch. Without this free-wheeling diode, the voltage across the coil will be limited only by dielectric breakdown voltages of the circuit or parasitic elements of the coil. This voltage can be kilo-

volts in amplitude even when nominal circuit voltages are low (e.g. 12 VDC) see Fig. 2.

The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current flowing through the load.

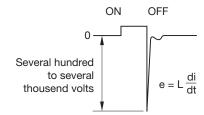
To get an efficient protection, the free-wheeling diode must be connected as close as possible to the inductive load!

Switching with inductive load Fig. 1



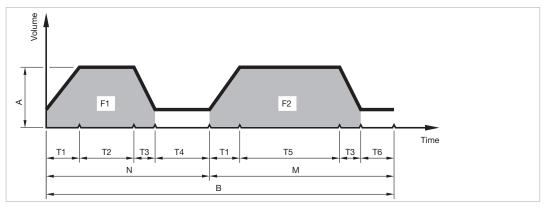
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Counter EMF over load without free-wheeling diode Fig. 2



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Multi-Tone Sound Module, standard tone sequence (3-Tone/5-Tone)



Diagram

F1	Frequency 1 of a tone sequence
T2	Playing time tone 1
T4	Break
N	Number of repetitions of tone 1
F2	Frequency 2 of a tone sequence
T5	Playing time tone 2
T6	Break
М	Number of repetitions of tone 2
Α	Volume level (±8 dB) @ 10 cm
В	Number of repetitions of the complete tone sequence, or blockage of the tone sequence
T1	Fade-in tone 1 and 2
T3	Fade-out tone 1 and 2

Tone sequences 1-3	Transportation (T1)			
	Parameter	Sequence 1 Door enabled	Sequence 2 Door closing	Sequence 3 Signal for visual impaired people
Tone 1	F1	1500 Hz	1900 Hz	600 Hz
	T2	∞	50 ms	50 ms
	T4	250 ms	50 ms	20 ms
	N	∞	∞	2
Tone 2	F2	deactivated	deactivated	500 Hz
	T5	deactivated	deactivated	1000 ms
	T6	deactivated	deactivated	900 ms
	M	deactivated	deactivated	1
General	A	17 / 90 db (A)	17 / 90 dB (A)	9 / 78 dB (A)
	В	∞	∞	∞
	T1	0 ms	0 ms	0 ms
	T3	0 ms	0 ms	0 ms

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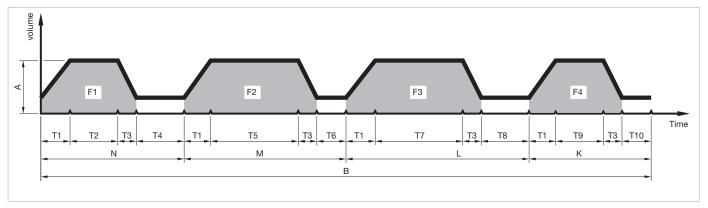
56 Application guidelines

	Parameter	Sequence 1 Door orientation signal	Sequence 2 Door opening signal	Sequence 3 Warning signal for door closing	Sequence 4 Door out of order signal	Sequence 5 Hussle Alarm
Tone 1	F1	500 Hz	800 Hz	2000 Hz	1400 Hz	875 Hz
	T2	500 ms	300 ms	500 ms	50 ms	1000 ms
	T4	900 ms	700 ms	200 ms	100 ms	250 ms
	N	∞	1	∞	3	3
Tone 2	F2	deactivated	830 Hz	deactivated	deactivated	deactivated
	T5	deactivated	500 ms	deactivated	deactivated	deactivated
	Т6	deactivated	0 ms	deactivated	deactivated	deactivated
	М	deactivated	1	deactivated	deactivated	deactivated
General	А	3 / 78 dB (A)	3 / 78 dB (A)	5 / 90 dB (A)	3 / 78 dB (A)	3 / 78 dB (A)
	В	∞	∞	1	1	1
	T1	0 ms	0 ms	0 ms	0 ms	0 ms
	T3	0 ms	0 ms	0 ms	0 ms	0 ms

Tone sequence	es 6-10 Machinery (M)					
	Parameter	Sequence 6	Sequence 7	Sequence 8	Sequence 9	Sequence 10
Tone 1	F1	750 Hz	2500 Hz	2000 Hz	2500 Hz	1000 Hz
	T2	100 ms	300 ms	250 ms	100 ms	500 ms
	T4	200 ms	500 ms	200 ms	100 ms	100 ms
	N	1	1	1	2	1
Tone 2	F2	500 Hz	2000 Hz	1000 Hz	2000 Hz	1500 Hz
	T5	450 ms	500 ms	250 ms	100 ms	500 ms
	T6	100 ms	400 ms	200 ms	100 ms	100 ms
	M	1	1	1	2	1
General	Α	4 / 84 dB (A)	4 / 84 dB (A)	5 / 90 dB (A)	5 / 90 dB (A)	4 / 84 dB (A)
	В	∞	∞	∞	∞	∞
	T1	0 ms				
	T3	200 ms	0 ms	500 ms	0 ms	0 ms

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Multi-Tone Sound Modul, self adjusting, standard Tone sequence (6-Tone)



Diagram

F1	Frequency 1 of a tone sequence
T2	Playing time tone 1
T4	Break
N	Number of repetitions of tone 1
F2	Frequency 2 of a tone sequence
T5	Playing time tone 2
T6	Break
М	Number of repetitions of tone 2
F3	Frequency 3 of a tone sequence
T7	Playing time tone 3
T8	Break

L	Number of repetitions of tone 3
F4	Frequency 4 of a tone sequence
T9	Playing time tone 4
T10	Break
K	Number of repetitions of tone 4
A	Basic volume level
D	Acoustic pressure difference
В	Number of repetitions of the complete tone sequence, or blockage of the tone sequence
T1	Fade-in tone 1 to 4
T3	Fade-out tone 1 to 4

We recommend taking acoustic measurements of the sounder volume from the outside and inside of the coach after the installation of the interior has been completed (TSI PRM).

Tone sequence							
	Parameter	Sequence 1 Door enabled	Sequence 2 Door closing	Sequence 3 Customer specific	Sequence 4 Customer specific	Sequence 5 Customer specific	Sequence 6 Customer specific
Tone 1	F1	1500 Hz	1900 Hz	_	_	_	_
	T2	250 ms	100 ms	-	_	_	_
	T4	250 ms	50 ms	-	_	_	-
	N	∞	1	-	-	-	-
Tone 2	F2	deactivated	deactivated	_	_	_	_
	T5	deactivated	deactivated	_	_	_	_
	T6	deactivated	deactivated	_	_	_	_
	M	deactivated	deactivated	_	_	_	_
Tone 3	F3	deactivated	deactivated	_	_	_	_
	T7	deactivated	deactivated	-	_	_	_
	Т8	deactivated	deactivated	_	_	_	_
	L	deactivated	deactivated	_	_	_	_
Tone 4	F4	deactivated	deactivated	_	_	_	_
	Т9	deactivated	deactivated	_	_	_	_
	T10	deactivated	deactivated	_	_	_	_
	K	deactivated	deactivated	-	_	_	_
General	А	48 dB (A) @ 1.5 m	48 dB (A) @ 1.5 m	_	_	_	_
	D	+5 db	+5db	_	_	_	_
	В	∞	∞	_	_	-	-
	T1	0 ms	0 ms	-	-	-	-
	Т3	0 ms	0 ms	-	-	-	_

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