

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 reliability
- Wide 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
 Access control systems

Functions

- Indicator
- Door opening pushbutton
- 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

Terminal

- Cable with direct connection

Lens Material

- Aluminium
- Plastic

Markings

- Laser marking
- Milling

Approvals

- CQC
- TSI PRM (EBC)

Conformities

- CE
- UKCA
- 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
Lever switch	13
Multi-Tone Sound Module	14
Flashing Warning Beacon	17

Rear mounting

Single side indicator	19
Single side pushbutton	21
Multi-Tone Sound Module	24

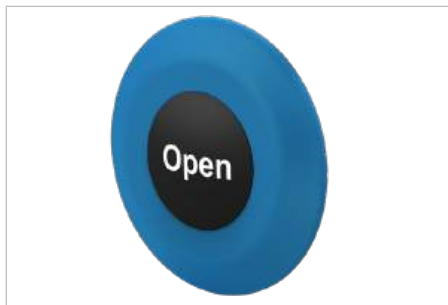
Glass mounting

Single side pushbutton	27
Double side pushbutton	31
Multi-Tone Sound Module	35

Components**39****Accessories****43****Technical Data****44****Application guidelines****56****Index****56**

56 Front mounting

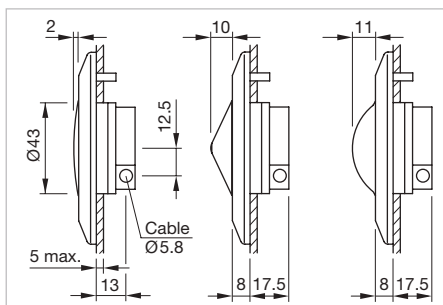
Single side indicator



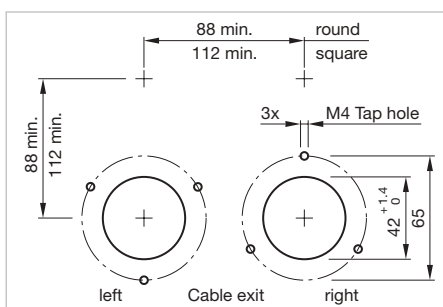
The preview is based on a sample product. This can differ from your current configuration.

Additional Information

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

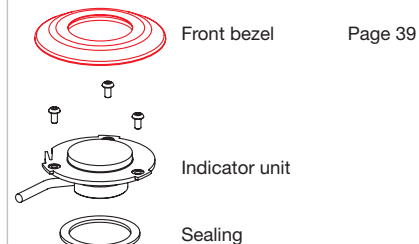


Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of



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 smoke black flush | ☐ Plastic colourless raised | ☐ Plastic colourless half round |
|--|--|--|

Marking (Text or symbol)

- ☐
- without marking

- ☐ with marking ☐ 1 line ☐ 2 line ☐ 3 line ☐ line

Symbole

☐ 	☐ 	☐ 	☐ 	☐ 	☐ 	☐ 	☐ 
☐ 	☐ 	☐ 	☐ 	☐ 	☐ 	☐ 	☐ 
☐ 	☐ 	☐ 	☐ 	☐ 	☐ 		

Symbol Illumination

- ☐ LED green ☐ LED red ☐ LED yellow ☐ LED white ☐ LED blue

Supply voltage illumination

- ☐
- 24 VDC
- ☐
- 110 VDC

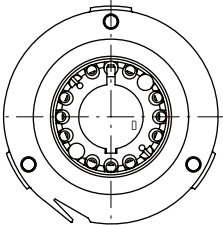
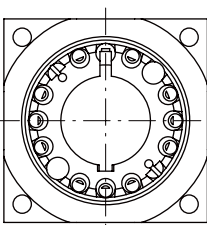
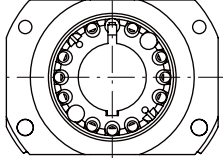
Tolerance -30 % ... +25 %

Cable exit	
☐ Cable exit right	☐ Cable exit left

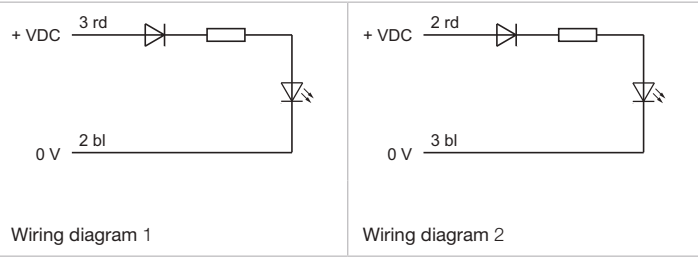
Cable length				
☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm	☐ _____ mm

Visible cable length can be shorter

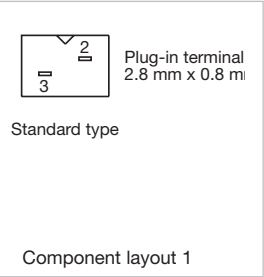
Cable and Connector type	
Cable	Connector
☐ 2 x 0.24 mm ²	☐ Core end-sleeves
	☐ AMP connector Mate-N-Lok (Wiring diagram 2)
	☐ DEUTSCH Connector (Wiring diagram 2)
	☐ AMP connector 2.8 mm x 0.8 mm (Wiring diagram 1)
	☐ AMP connector 6.3 mm x 0.8 mm (Wiring diagram 2)
	☐ _____

Housing		
☐ Housing D73 (standard)	☐ Housing reworked 50 mm x 50 mm	☐ Housing reworked 68.5 mm x 50 mm
		

Wiring diagrams



Component layouts



56 Front mounting

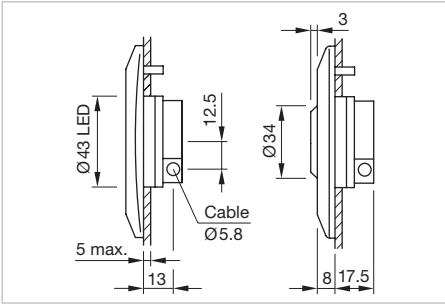
Single side pushbutton



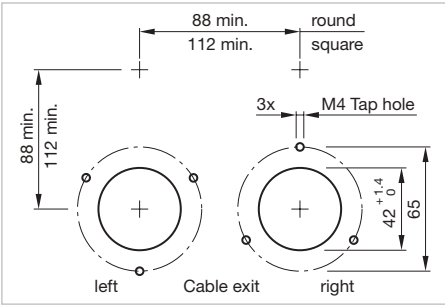
The preview is based on a sample product. This can differ from your current configuration.

Additional Information

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

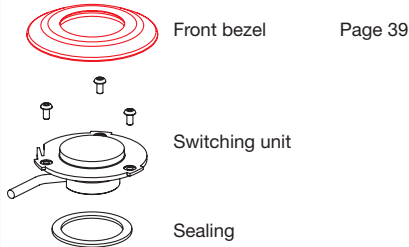


Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of



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

Lens marking

- ☐ without symbol

☐ 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)	☐ 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			

Illumination

☐ without illumination						
☐ with illumination	☐ 8 green	☐ 8 red	☐ 8 blue	☐ 8 yellow	☐ 8 green/2 red	☐ 8 red/2 green

Supply voltage Illumination

☐ 24 VDC	☐ 36 VDC	☐ 48 VDC	☐ 72 VDC	☐ 110 VDC
---------------------------------	---------------------------------	---------------------------------	---------------------------------	----------------------------------

Tolerance -30 % ... +25 %

Cable exit

☐ Cable exit right	☐ Cable exit left
---	--

Cable length

☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm	☐ _____ mm
-------------------------------------	-------------------------------------	--------------------------------------	--------------------------------------	-----------------------------------

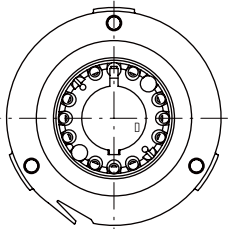
Visible cable length can be shorter

Cable and connector type

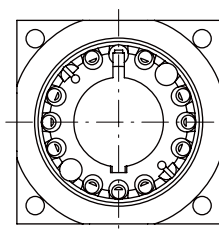
Cable	Connector
☐ 2x0.5 mm ² (Wiring diagram 5)	☐ Core end-sleeves
☐ 4x0.5 mm ² (Wiring diagram 1, 2, 3, 4)	☐ AMP connector Mate-N-Lok (Wiring diagram 3, 4)
	☐ DEUTSCH connector (Wiring diagram 3, 4)
	☐ AMP connector 2.8 mm x 0.8 mm (Wiring diagram 1, 2))
	☐ AMP connector 6.3 mm x 0.8 mm (Wiring diagram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

Housing

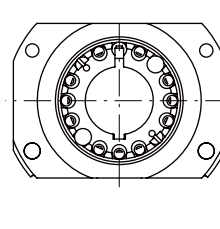
☐ Housing D73 (standard)



☐ Housing reworked 50 mm x 50 mm



☐ Housing reworked 68.5 mm x 50 mm

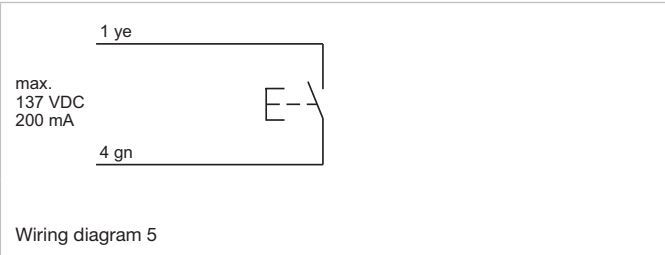
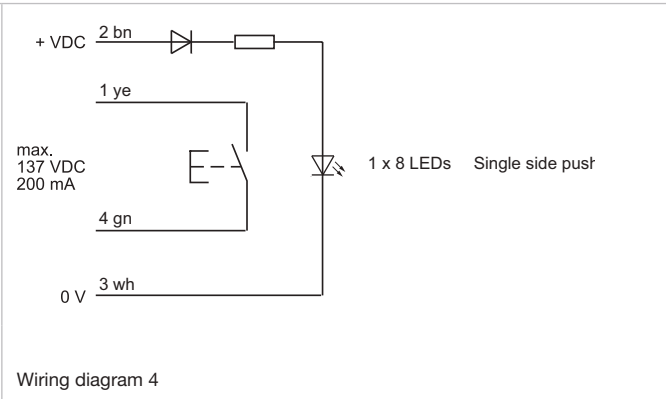
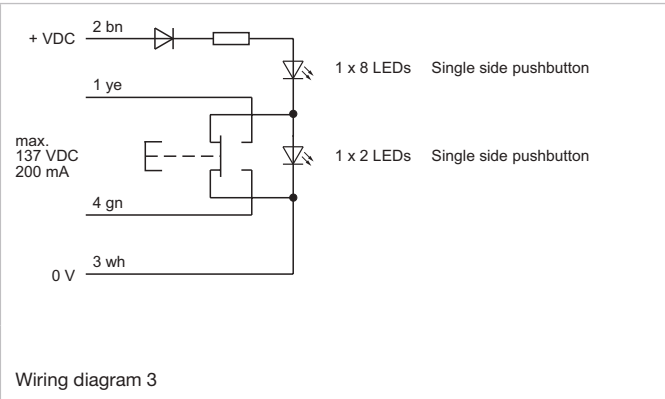


Wiring diagrams

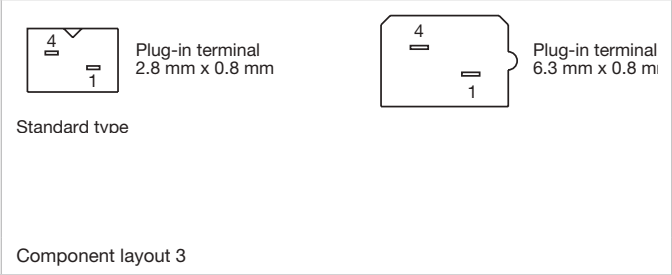
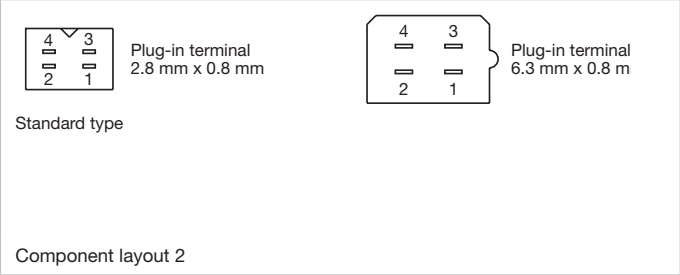
max. 137 VDC 200 mA 1 x 8 LEDs Single side pushbutton 1 x 2 LEDs Single side pushbutton Wiring diagram 1	max. 137 VDC 200 mA 1 x 8 LEDs Single side pushbutton Wiring diagram 2
--	---

56 Front mounting

Wiring diagrams

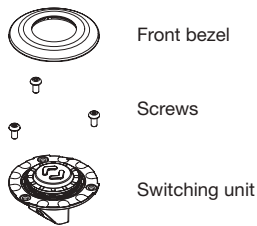


Component layouts

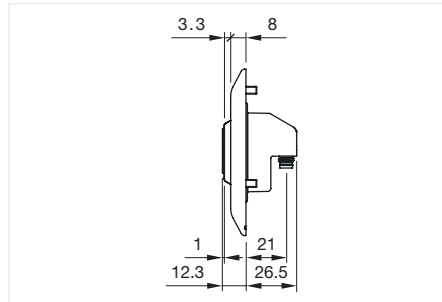


Single side pushbutton, 56 Access

Equipment consisting of (schematic overview)



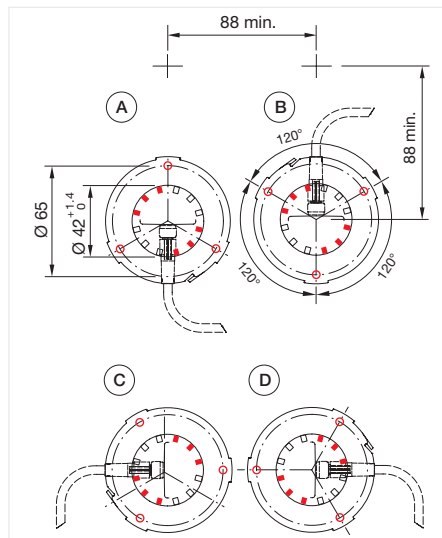
Each Part Number listed below includes all the black components shown in the 3D-drawing.



Dimensions [mm]



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



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

Additional information

- Standard device plug M8x1, 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. The electronic form is available at www.eao.com/downloads



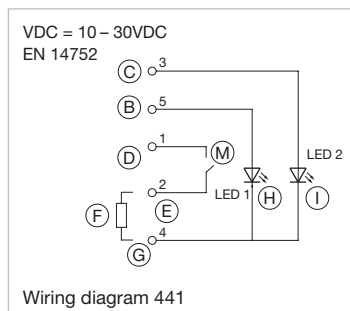
Single side pushbutton, 56 Access, Frontdimension Ø 87 mm

Lens material	Lens shape	Symbol	Cable output	Front bezel colour	Colour similar RAL	Part No.	Wiring diagram	Component layout
☐ Aluminium	raised		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		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

56 Front mounting

Lens material	Lens shape	Symbol	Cable output	Front bezel colour	Colour similar RAL	Part No.	Wiring diagram	Component layout
☐ Aluminium	raised		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

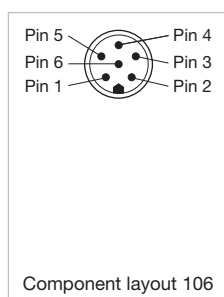
Wiring diagrams



Legend

- B = VDC illumination green
- 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

Single side pushbutton 56 Universal

Equipment consisting of (schematic overview)



Front bezel

Page 39



Screws



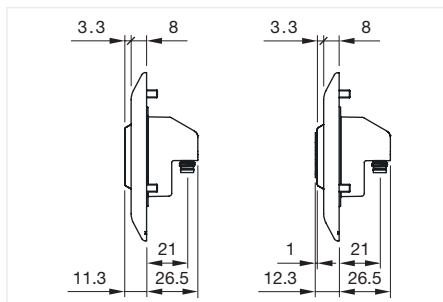
Lens



Switching unit

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

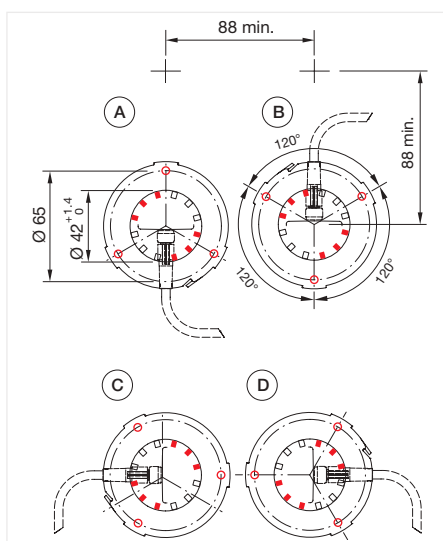
To obtain a complete unit, please select the red components from the pages shown.



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. The electronic form is available at www.eao.com/downloads



Switching unit, without lens, without front bezel

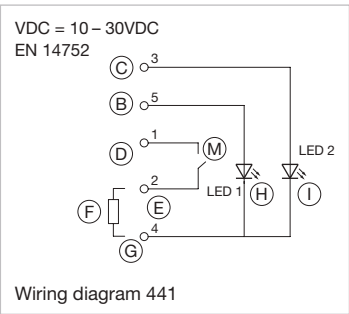
Housing colour	Housing material	Part No.	Wiring diagram	Component layout
☐ Black	Plastic	56-1520.0000	441	106

56 Front mounting

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

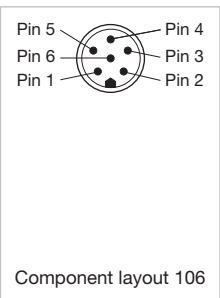
☐ with symbol, black, laser engraved	 ☐ Part No. 56-6.00001	 ☐ Part No. 56-6.00002	 ☐ Part No. 56-6.00003	 ☐ Part No. 56-6.00004	 ☐ Part No. 56-6.00005	 ☐ Part No. 56-6.00006
	 ☐ Part No. 56-6.00007	 ☐ Part No. 56-6.00008	 ☐ Part No. 56-6.00009	 ☐ Part No. 56-6.00010	 ☐ Part No. 56-6.00011	 ☐ Part No. 56-6.00012
	 ☐ 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
 - 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

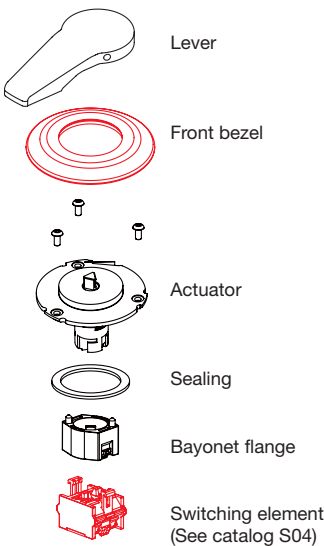
Component layouts



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

Lever Switch

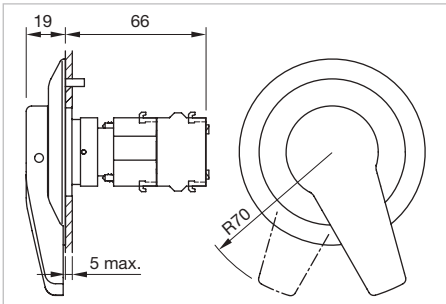
Equipment consisting of



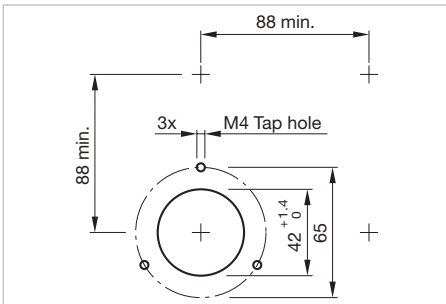
Page 39

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

56 Front mounting

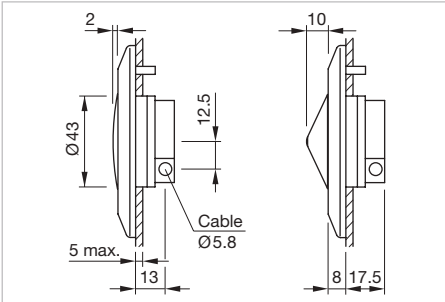
Multi-Ton Sound Modul



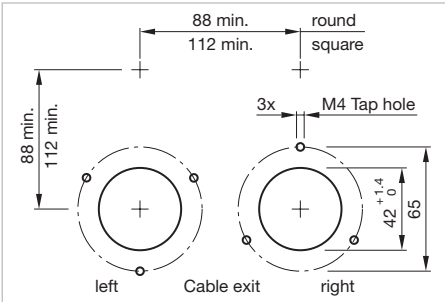
The preview is based on a sample product. This can differ from your current configuration.

Additional Information

- 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. The electronic form is available at www.eao.com/downloads

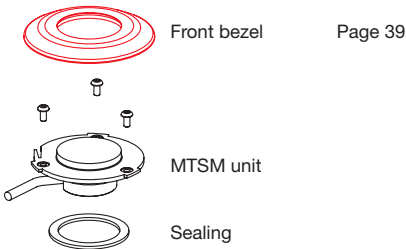


Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of



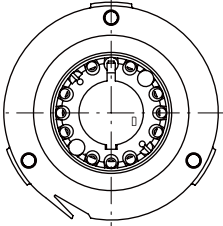
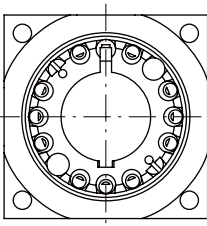
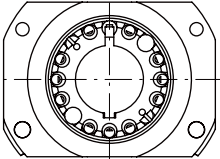
Each part listed below includes all the black components shown in the 3D-drawing.

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

Front cap			
☐ Plastic black flush		☐ Plastic black raised	
Front cap marking			
☐ without symbol		☐ with symbol	
Volume adjustment			
☐ Manually (3-/5-Tone Sequences Module)		☐ Automatically (6-Tone Sequences Module)	
Tone sequence			
☐ 3-tone	☐ 5-tone	☐ 6-tone	
Supply voltage			
☐ 24 VDC (5-Tone Sequences Module)	☐ 16...63 VDC (3-/6-Tone Sequences Module)	☐ 50...143 VDC (3-/6-Tone Sequences Module)	
Tolerance ±30 %			
Cable exit			
☐ cable exit right		☐ cable exit left	
Cable length			
☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm
☐ _____ mm			

Visible cable length can be shorter

Cable and connector type	
Cable	Connector
☐ 4x0.25 mm ²	☐ Core end-sleeves
☐ 4x0.5 mm ²	☐ AMP connector Mate-N-Lok (Wiring diagram 3, 4)
☐ 6x0.5 mm ²	☐ 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 (standard)	☐ Housing reworked 50 mm x 50 mm	☐ Housing reworked 68.5 mm x 50 mm
		

Wiring diagrams

5-Tone sequence

Diagram 1 shows a 5-Tone sequence wiring. A speaker is connected to a volume control unit. The volume control unit has five inputs: Tone 1 (red), Tone 2 (blue), Tone 3 (yellow), Tone 4 (brown), and Tone 5 (green). The output is labeled 'Volume'. A +24VDC supply is connected to the top of the volume control. The bottom of the volume control is connected to 0V (white).

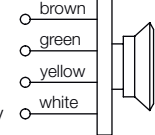
Wiring diagram 1

3-Tone sequence

Diagram 2 shows a 3-Tone sequence wiring. A speaker is connected to a volume control unit. The volume control unit has three inputs: brown, green, and yellow. The output is labeled 'Volume'. A 16 ... 63VDC/50 ... 143 VDC supply is connected to the top of the volume control. The bottom of the volume control is connected to 0V (white).

Wiring diagram 2

Tone sequence			
Wire	1	2	3
green	VDC	0V	VDC
yellow	0V	VDC	VDC

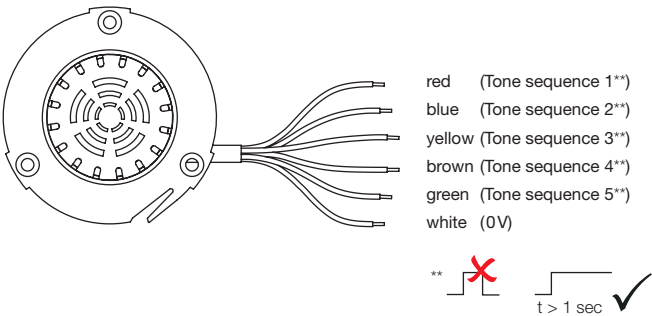
Tone sequence, self-adjusting 	16 ... 63 VDC			
	Tone	green	yellow	brown
	1	16 – 63 VDC	0V	0V
	2	0 V	16 – 63 VDC	0V
	3	16 – 63 VDC	16 – 63 VDC	0V
	4	0 V	0 V	16 – 63 VDC
	5	16 – 63 VDC	0 V	16 – 63 VDC
	6	0 V	16 – 63 VDC	16 – 63 VDC
	50 ... 143 VDC			
	Tone	green	yellow	brown
	1	50 – 143 VDC	0V	0V
	2	0 V	50 – 143 VDC	0V
	3	50 – 143 VDC	50 – 143 VDC	0V
	4	0 V	0 V	50 – 143 VDC
	5	50 – 143 VDC	0 V	50 – 143 VDC
	6	0 V	50 – 143 VDC	50 – 143 VDC

Wiring diagram 3

56 Front mounting

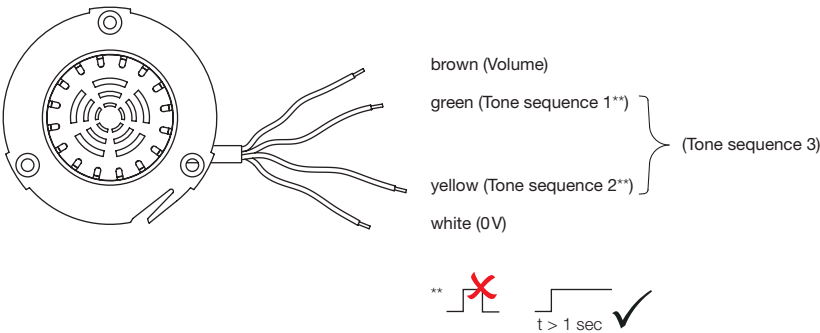
Component layouts

5-Tone sequence



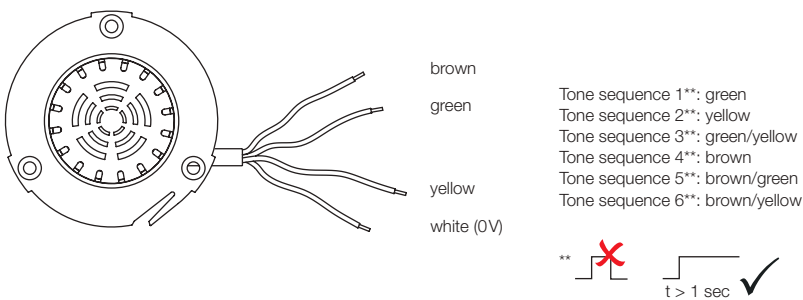
Bauteilelayout 4

3-Tone sequence



Bauteilelayout 5

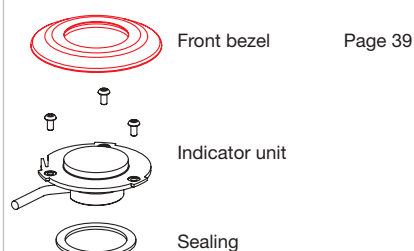
6-Tone sequence, self-adjusting



Bauteilelayout 6

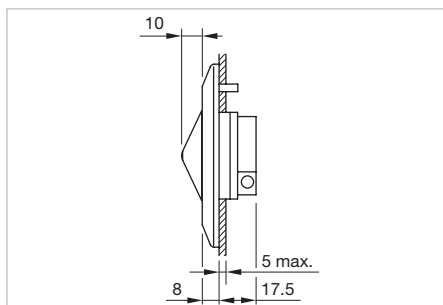
Flashing warning beacon

Equipment consisting of



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

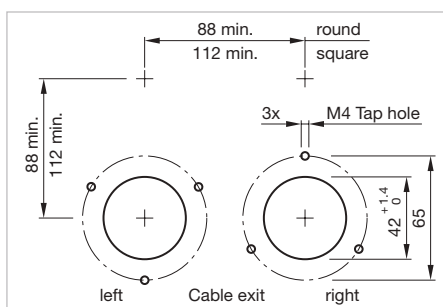
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



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



Mounting cut-outs [mm]

Additional Information

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

Front cap

☐ Plastic colourless raised

Illumination

☐ LED white

Supply voltage Illumination

☐ 24 VDC

Tolerance $\pm 30\%$

Cable exit

☐ Cable exit right

☐ Cable exit left

Cable length

☐ A = 200 mm

☐ A = 500 mm

☐ A = 1000 mm

☐ A = 1500 mm

☐ _____ mm

Visible cable length can be shorter

Cable and connector type

Cable

☐ 2 x 0.24 mm²

Connector

☐ 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)

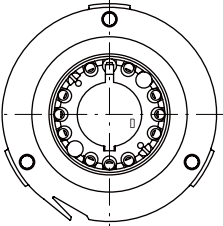
☐ AMP connector 6.3 mm x 0.8 mm (Wiring diagram 2)

☐

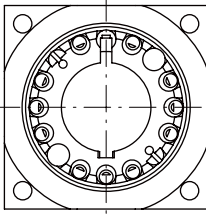
56 Front mounting

Housing

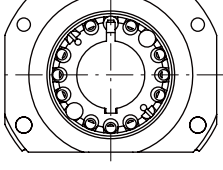
☐ Housing D73 (standard)



☐ Housing reworked 50 mm x 50 mm



☐ Housing reworked 68.5 mm x 50 mm



Wiring diagrams

+ VDC

3 rd







0 V

2 bl

Wiring diagram 1

+ VDC

2 rd







0 V

3 bl

Wiring diagram 2

Component layouts

2

3



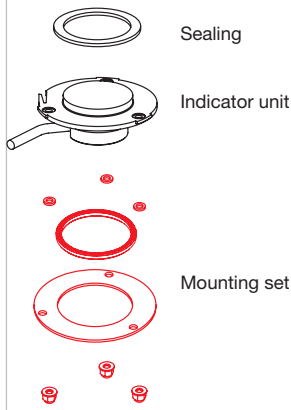
Plug-in terminal
2.8 mm x 0.8 m

Standard type

Component layout 1

Single side indicator

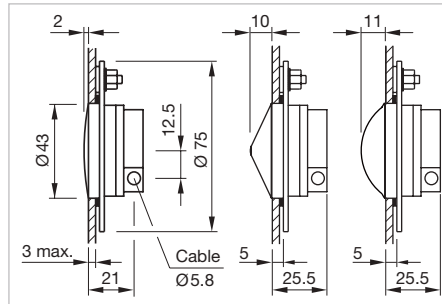
Equipment consisting of



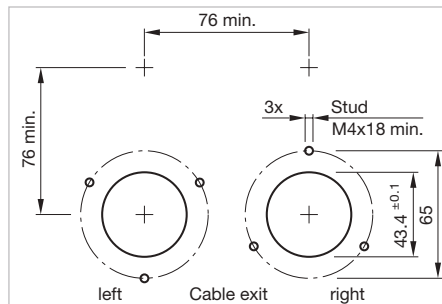
Page 42

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

Front cap

- ☐ Plastic smoke black flush ☐ Plastic colourless raised ☐ Plastic colourless half round

Marking (Text or symbol)

- ☐ without marking

- ☐ with marking ☐ 1 line ☐ 2 line ☐ 3 line ☐ line

Symbols

☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐		

Symbol Illumination

- ☐ LED green ☐ LED red ☐ LED yellow ☐ LED white ☐ LED blue

Supply voltage

- ☐ 24 VDC ☐ 110 VDC

Tolerance -30 % ... +25 %

56 Rear mounting

Cable exit

☐ Cable exit right

☐ Cable exit left

Cable length

☐ A = 200 mm

☐ A = 500 mm

☐ A = 1000 mm

☐ A = 1500 mm

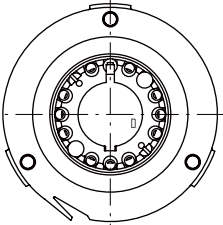
☐ _____ mm

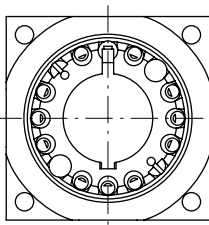
Visible cable length can be shorter

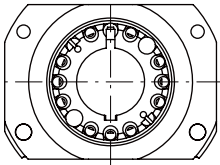
Cable and connector type

Cable	Connector
☐ 2 x 0.24 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 connector 6.3 mm x 0.8 mm (Wiring diagram 2)
	☐ _____

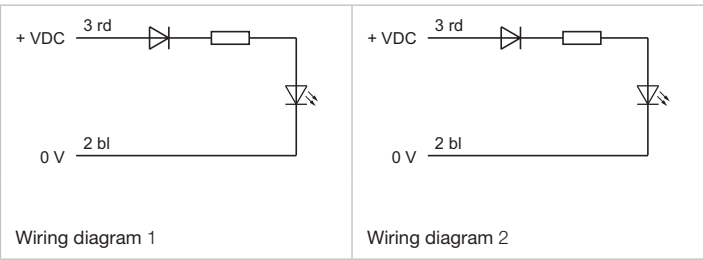
Housing

☐ Housing D73 (standard)


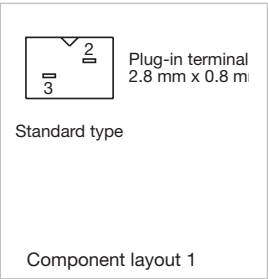
☐ Housing reworked 50 mm x 50 mm


☐ Housing reworked 68,5 mm x 50 mm


Wiring diagrams

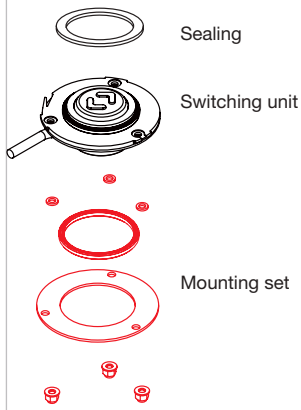


Component layouts



Single side pushbutton

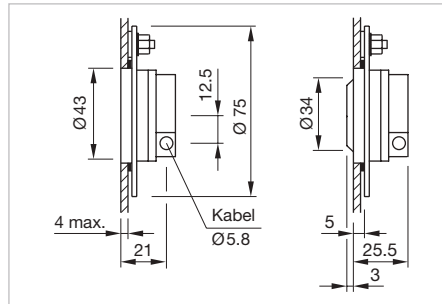
Equipment consisting of



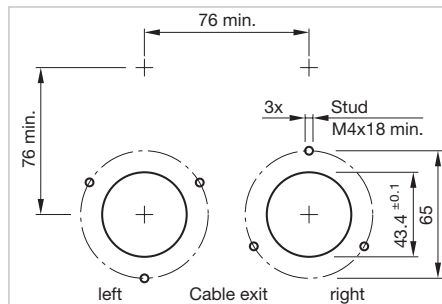
Page 42

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

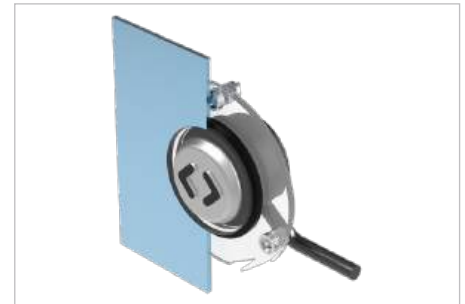
To obtain a complete unit, please select the red components from the pages shown.



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. 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

Lens marking

☐ without symbol

☐ 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)	☐ 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						
☐ with illumination	☐ 8 green	☐ 8 red	☐ 8 blue	☐ 8 yellow	☐ 8 green/2 red	☐ 8 red/2 green

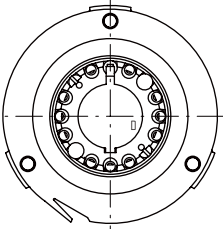
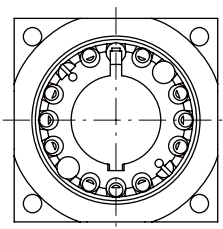
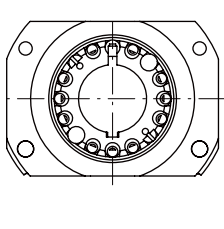
Supply voltage Illumination				
☐ 24 VDC	☐ 36 VDC	☐ 48 VDC	☐ 72 VDC	☐ 110 VDC

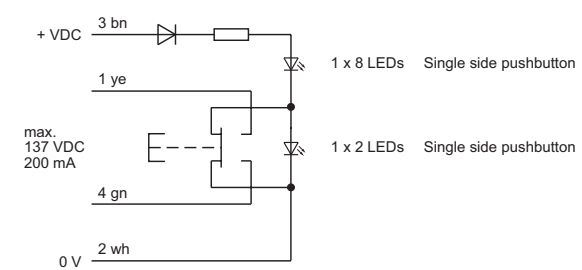
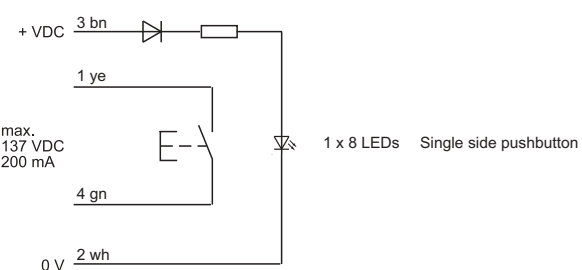
Tolerance -30 % ... +25 %

Cable exit	
☐ Cable exit right	☐ Cable exit left

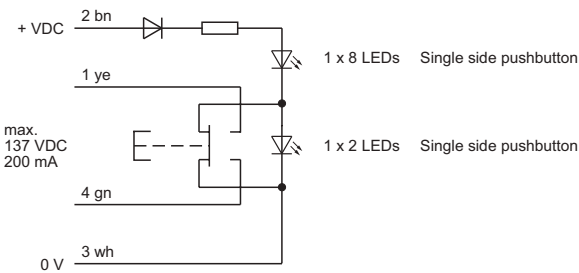
Cable length				
☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm	☐ _____ mm

Cable and connector type	
Cable	Connector
☐ 2 x 0.5 mm² (Wiring diagram 5)	☐ Core end-sleeves
☐ 4 x 0.5 mm² (Wiring 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)
	☐ _____

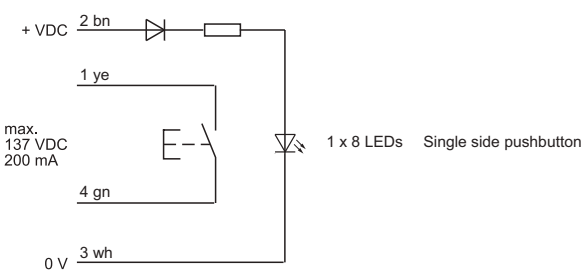
Housing		
☐ Housing D73 (standard)	☐ Housing reworked 50 mm x 50 mm	☐ Housing reworked 68.5 mm x 50 mm
		

Wiring diagrams	
 1 x 8 LEDs Single side pushbutton 1 x 2 LEDs Single side pushbutton	 1 x 8 LEDs Single side pushbutton
Wiring diagram 1	Wiring diagram 2

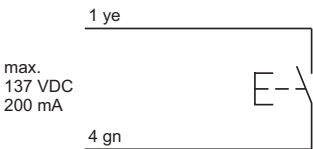
Wiring diagrams



Wiring diagram 3



Wiring diagram 4



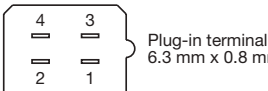
Wiring diagram 5

Component layouts



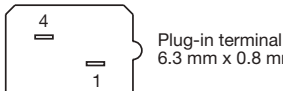
Standard type

Component layout 2



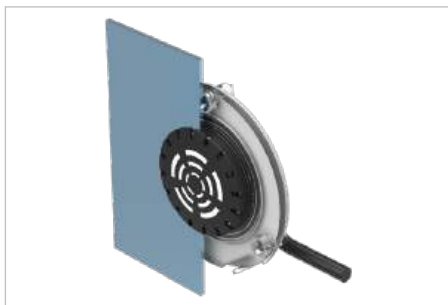
Standard twoe

Component layout 3



56 Rear mounting

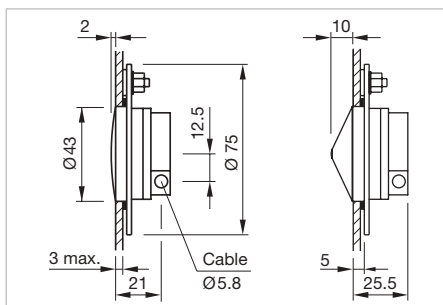
Multi-Ton Sound Modul



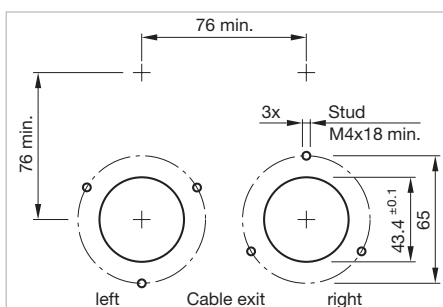
The preview is based on a sample product. This can differ from your current configuration.

Additional Information

- 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

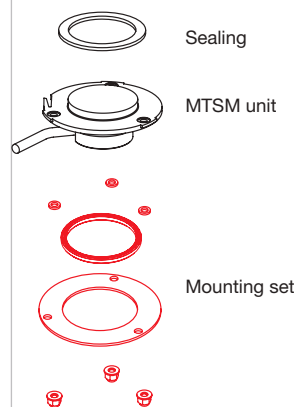


Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of



Page 42

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 raised

Front cap marking

☐ without symbol

☐ with symbol

Volume adjustment

☐ Manually (3-/5-Tone Sequences Module)

☐ Automatically (6-Tone Sequences Module)

Tone sequence

☐ 3-tone

☐ 5-tone

☐ 6-tone

Supply voltage

☐ 24 VDC (5-Tone Sequences Module)

☐ 16...63 VDC (3-/6-Tone Sequences Module)

☐ 50...143 VDC (3-/6-Tone Sequences Module)

Tolerance $\pm 30\%$

Cable exit

☐ cable exit right

☐ cable exit left

Cable length

☐ A = 200 mm

☐ A = 500 mm

☐ A = 1000 mm

☐ A = 1500 mm

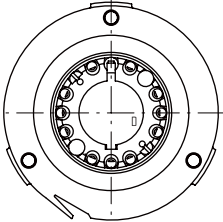
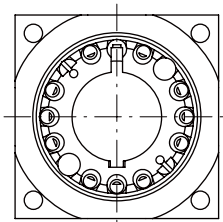
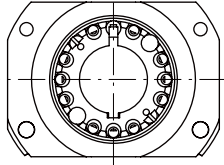
☐ _____ mm

Visible cable length can be shorter

Cable and connector type

Cable	Connector
☐ 4x0.25 mm ²	☐ Core end-sleeves
☐ 4x0.5 mm ²	☐ AMP connector Mate-N-Lok (Wiring diagram 3, 4)
☐ 6x0.5 mm ²	☐ 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 (standard)	☐ Housing reworked 50 mm x 50 mm	☐ Housing reworked 68.5 mm x 50 mm
		

Wiring diagrams

5-Tone sequence

Diagram 1 shows a 5-Tone sequence wiring. A speaker is connected to a volume control unit. The volume control unit has five inputs: Tone 1 (red), Tone 2 (blue), Tone 3 (yellow), Tone 4 (brown), and Tone 5 (green). The output is labeled 'Volume'. A +24VDC supply is connected to the volume control unit. The speaker is connected to the volume control output.

Wiring diagram 1

3-Tone sequence

Diagram 2 shows a 3-Tone sequence wiring. A speaker is connected to a volume control unit. The volume control unit has three inputs: brown, green, and yellow. The output is labeled 'Volume'. A 0V supply is connected to the volume control unit. The speaker is connected to the volume control output.

Wiring diagram 2

Tone sequence			
Wire	1	2	3
green	VDC	0V	VDC
yellow	0V	VDC	VDC

Tone sequence, self-adjusting

Wiring diagram 3 shows a speaker connected to a volume control. The volume control has four inputs: brown, green, yellow, and white. The output is labeled 'Volume'.

16 ... 63 VDC

Tone	green	yellow	brown
1	16 – 63 VDC	0V	0V
2	0 V	16 – 63 VDC	0V
3	16 – 63 VDC	16 – 63 VDC	0V
4	0 V	0 V	16 – 63 VDC
5	16 – 63 VDC	0 V	16 – 63 VDC
6	0 V	16 – 63 VDC	16 – 63 VDC

50 ... 143 VDC

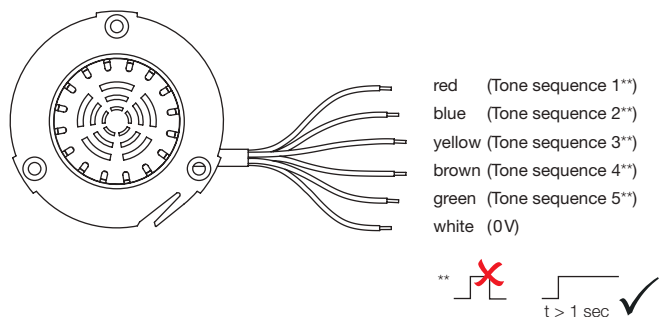
Tone	green	yellow	brown
1	50 – 143 VDC	0V	0V
2	0 V	50 – 143 VDC	0V
3	50 – 143 VDC	50 – 143 VDC	0V
4	0 V	0 V	50 – 143 VDC
5	50 – 143 VDC	0 V	50 – 143 VDC
6	0 V	50 – 143 VDC	50 – 143 VDC

Wiring diagram 3

56 Rear mounting

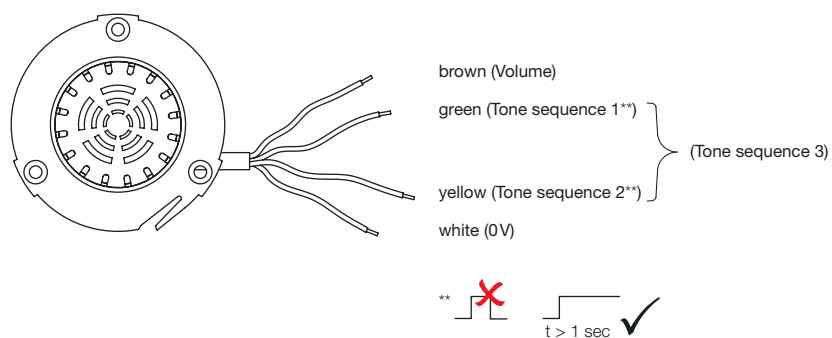
Component layouts

5-Tone sequence



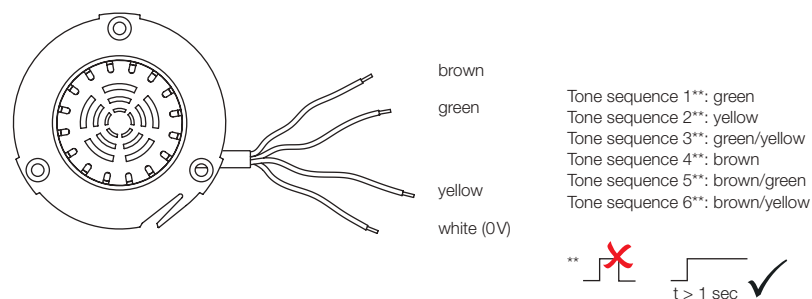
Bauteilelayout 4

3-Tone sequence



Bauteilelayout 5

6-Tone sequence, self-adjusting



Bauteilelayout 6

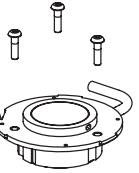
Single side pushbutton

Equipment consisting of

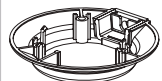


Front bezel

Page 39



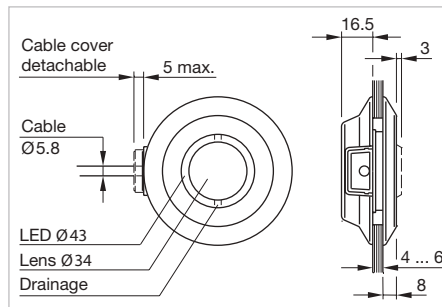
Switching unit

Cable cover
standard or
funnel

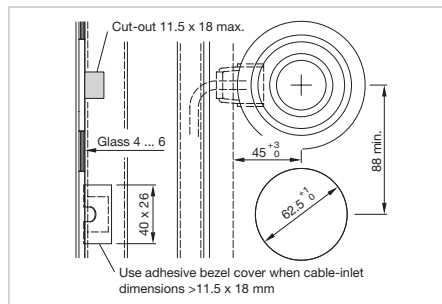
Cover

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

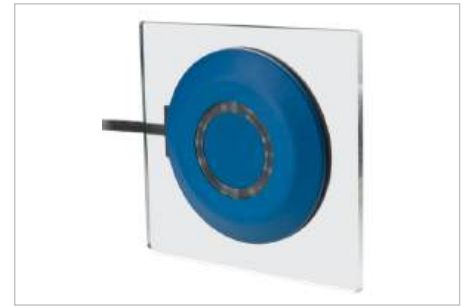
To obtain a complete unit, please select the red components from the pages shown.



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)
- Other cable cover are available
- Please fill in the form and forward it to your local EAO partner by e-mail. 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

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



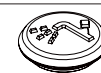
☐ Symbol No.
WC



☐ 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)



☐ 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 green	☐ 8 red	☐ 8 blue	☐ 8 yellow	☐ 8 green/2 red	☐ 8 red/2 green

Supply voltage Illumination				
☐ 24 VDC	☐ 36 VDC	☐ 48 VDC	☐ 72 VDC	☐ 110 VDC

Tolerance -30 % ... +25 %

Cable length				
☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm	☐ _____ mm

Visible cable length can be shorter

Cable and connector type	
Cable	Connector
☐ 2x0.5mm² (Wiring diagram 5)	☐ Core end-sleeves
☐ 4x0.5mm² (Wiring diagram 1, 2, 3, 4)	☐ AMP connector Mate-N-Lok (Wiring diagram 3, 4)
	☐ DEUTSCH connector (Wiring diagram 3, 4)
	☐ AMP connector 2.8mm x0.8mm (Wiring diagram 1, 2))
	☐ AMP connector 6.3mm x0.8mm (Wiring diagram 3, 4)
	☐ _____



Cable cover standard

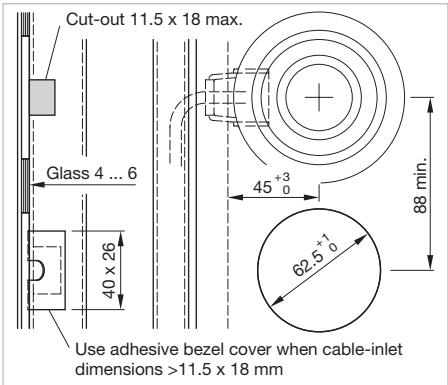
Product attribute	Cable cover	Part No.
☐ Included in standard delivery	standard 0°	56-992



Cable cover standard

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

Additional Information
Additional cable covers are available on request.



Mounting cut-outs [mm]

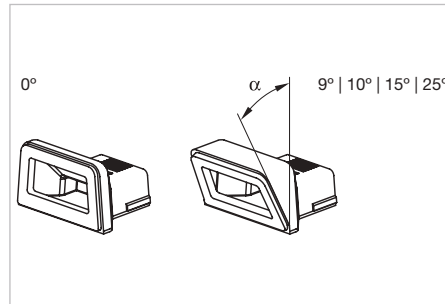


Cable cover funnel

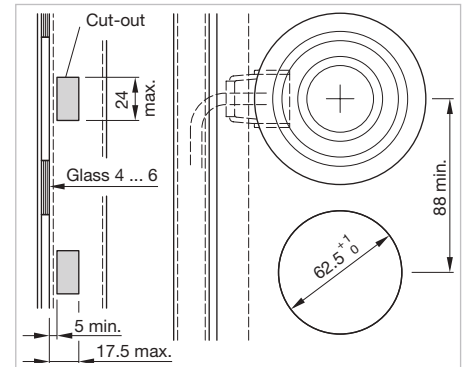
Cable cover	Part No.
☐ Funnel 0°	56-992B
☐ Funnel 10°	56-992C
☐ Funnel 15°	56-992D
☐ Funnel 25°	56-992E
☐ Funnel 9°	56-992F

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

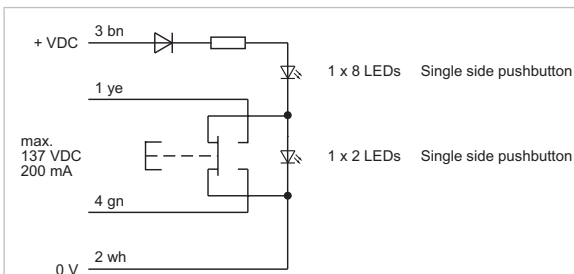


Dimensions [mm]

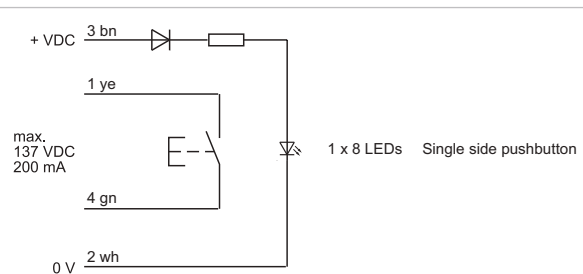


Mounting cut-outs [mm]

Wiring diagrams



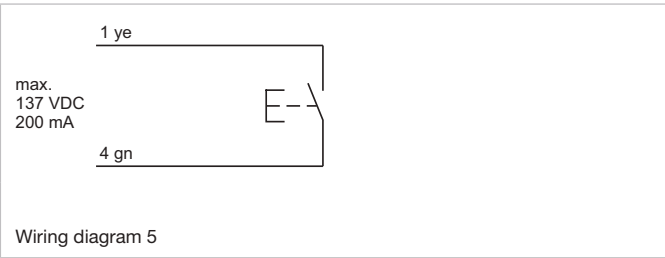
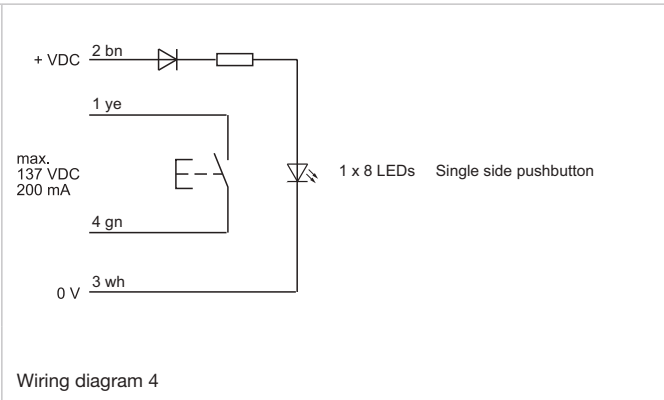
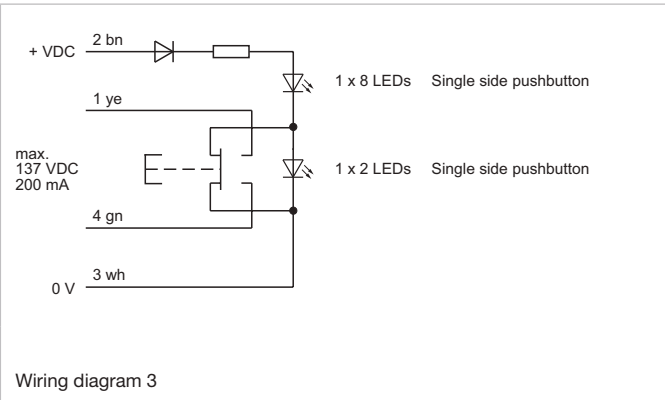
Wiring diagram 1



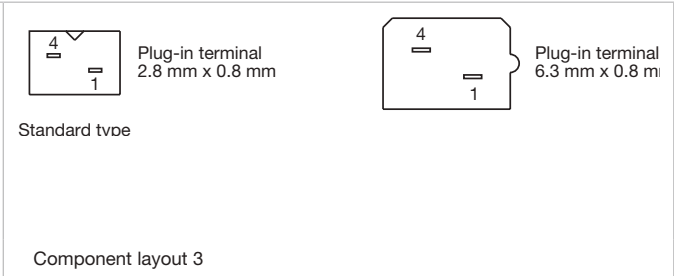
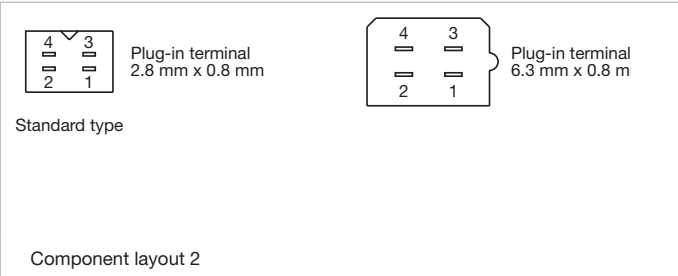
Wiring diagram 2

56 Glass mounting

Wiring diagrams

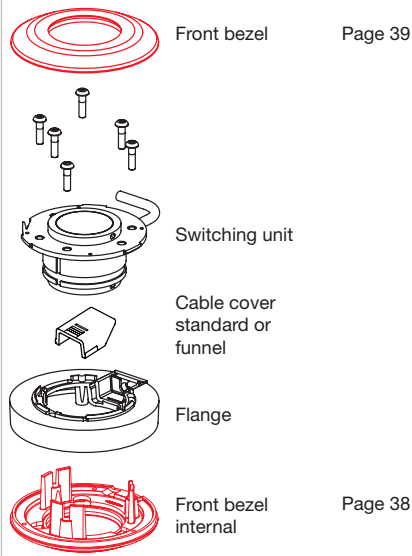


Component layouts



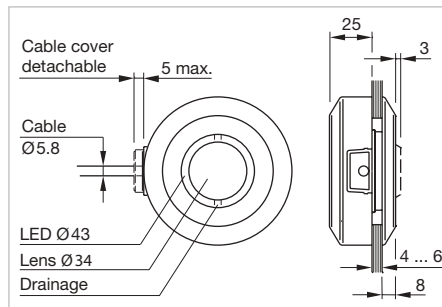
Double side pushbutton

Equipment consisting of

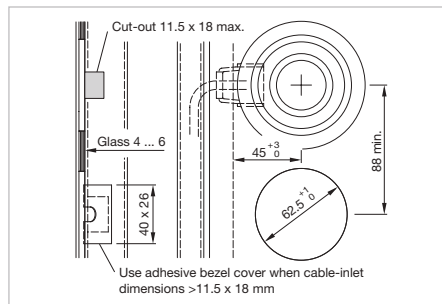


Each part listed below includes all the black components shown in the 3D-drawing.

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)
- Please fill in the form and forward it to your local EAO partner by e-mail. 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

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)

☐ 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 green	☐ 8 red	☐ 8 blue	☐ 8 yellow	☐ 8 green/2 red	☐ 8 red/2 green

Supply voltage illumination				
☐ 24 VDC	☐ 36 VDC	☐ 48 VDC	☐ 72 VDC	☐ 110 VDC

Tolerance -30 % ... +25 %

Cable length				
☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm	☐ _____ mm

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



Cable cover standard

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

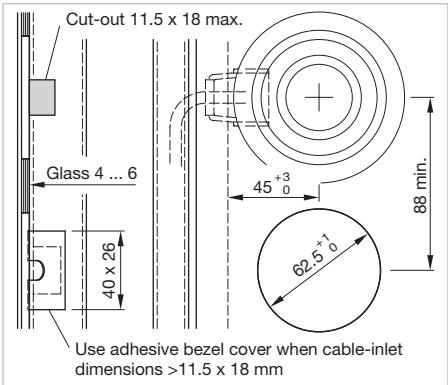


Cable cover standard

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

Additional Information

- Additional cable covers are available on request.



Mounting cut-outs [mm]

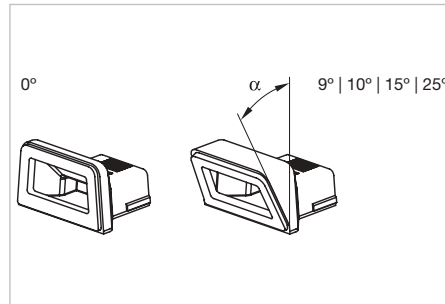


Cable cover funnel

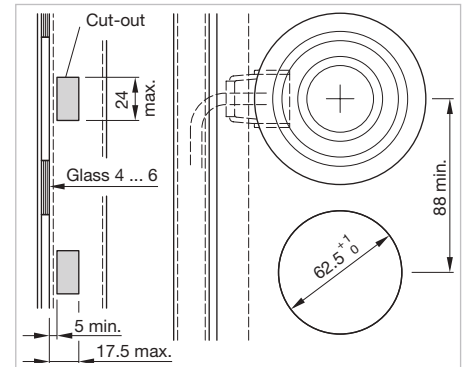
Cable cover	Part No.
☐ Funnel 0°	56-992B
☐ Funnel 10°	56-992C
☐ Funnel 15°	56-992D
☐ Funnel 25°	56-992E
☐ Funnel 9°	56-992F

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

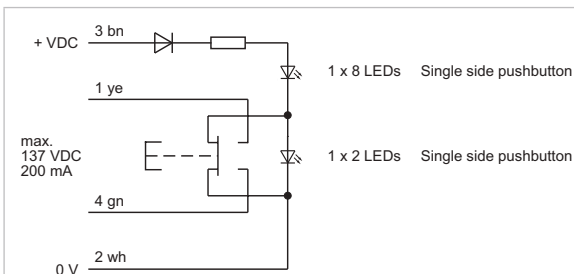


Dimensions [mm]

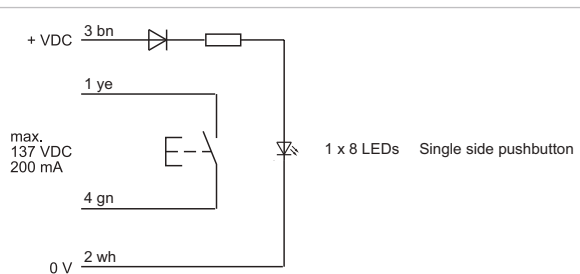


Mounting cut-outs [mm]

Wiring diagrams



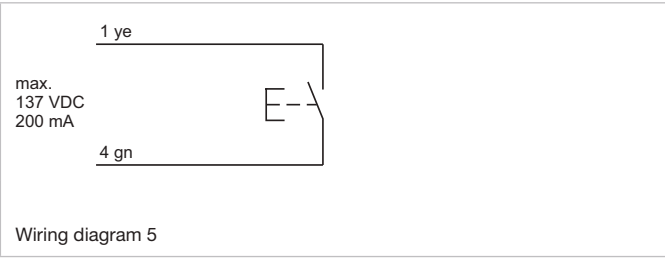
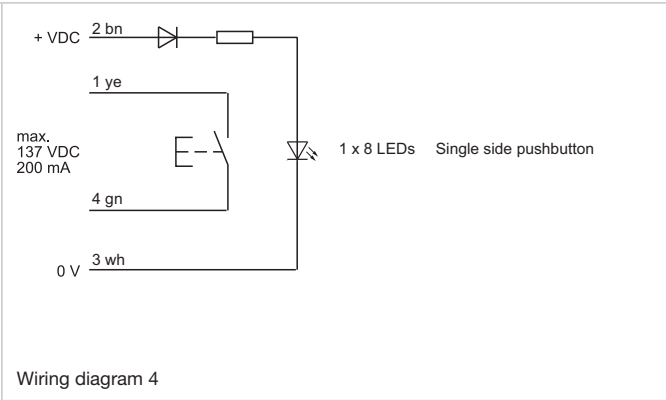
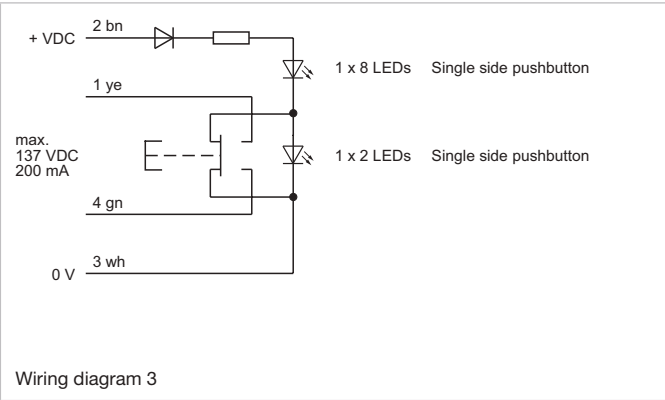
Wiring diagram 1



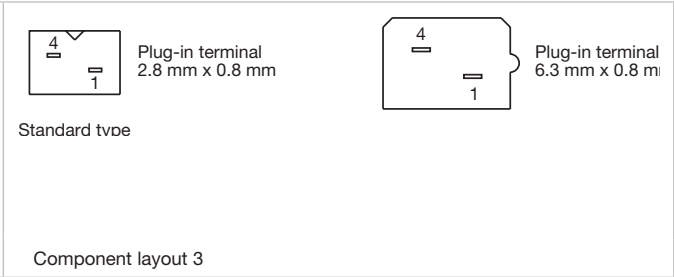
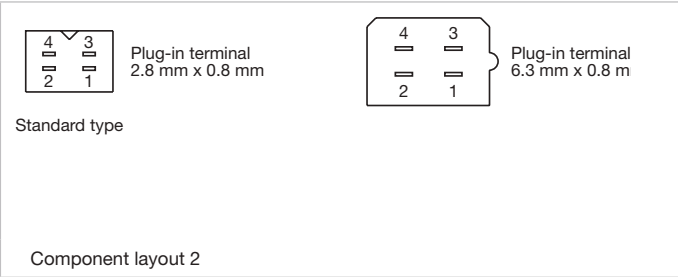
Wiring diagram 2

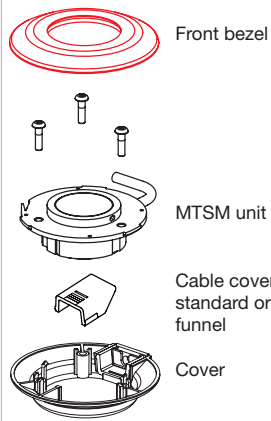
56 Glass mounting

Wiring diagrams



Component layouts

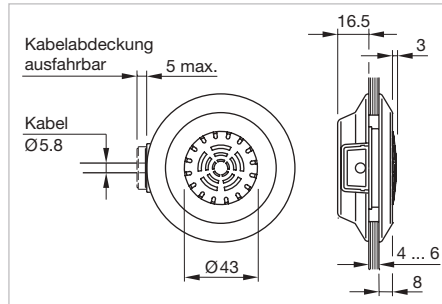
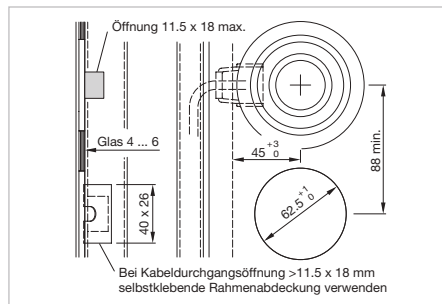


Multi-Ton Sound Modul**Equipment consisting of**

Page 39

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. 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 Sequences Module) ☐ Automatically (6-Tone Sequences Module)

Tone sequence

- ☐ 3-tone ☐ 5-tone ☐ 6-tone

Supply voltage

- ☐ 24 VDC (5-Tone Sequences Module) ☐ 16 ... 63 VDC (3-/6-Tone Sequences Module) ☐ 50 ... 143 VDC (3-/6-Tone Sequences Module)

Tolerance ±30 %

Cable exit

- ☐ cable exit right ☐ cable exit left

Cable length

- ☐ A = 200 mm ☐ A = 500 mm ☐ A = 1000 mm ☐ A = 1500 mm ☐ _____ mm

Visible cable length can be shorter

Cable and connector type

Cable	Connector
☐ 4 x 0.5 mm ²	☐ Core end-sleeves
	☐ AMP connector Mate-N-Lok
	☐ DEUTSCH connector
	☐ AMP connector 2.8 mm x 0.8 mm
	☐ AMP connector 6.3 mm x 0.8 mm
	☐ _____

56 Glass mounting



Cable cover standard

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

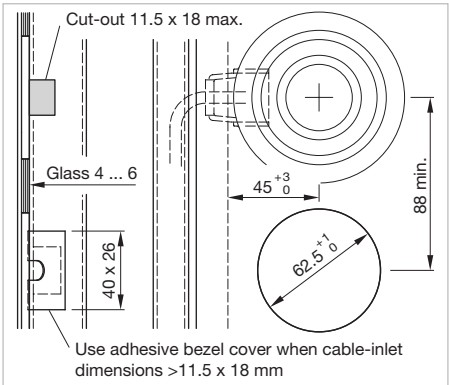


Cable cover standard

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

Additional Information

- Additional cable covers are available on request.



Mounting cut-outs [mm]

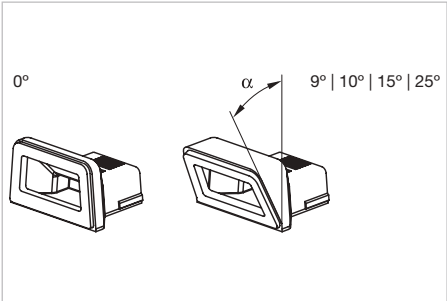


Cable cover funnel

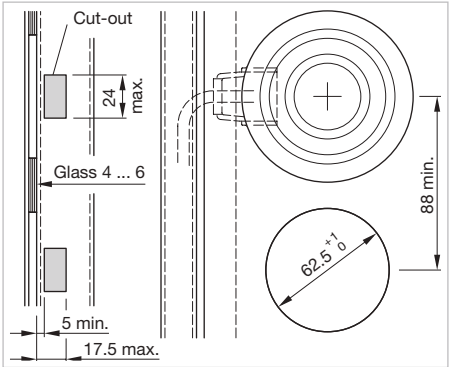
Cable cover	Part No.
☐ Funnel 0°	56-992B
☐ Funnel 10°	56-992C
☐ Funnel 15°	56-992D
☐ Funnel 25°	56-992E
☐ Funnel 9°	56-992F

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



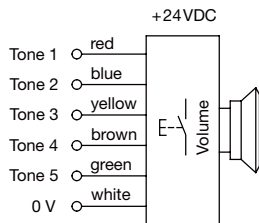
Dimensions [mm]



Mounting cut-outs [mm]

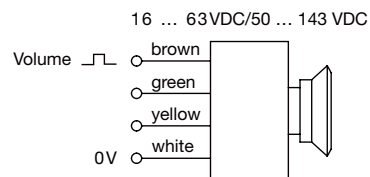
Wiring diagrams

5-Tone sequence



Wiring diagram 1

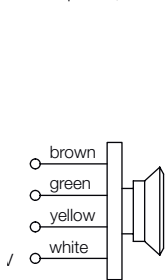
3-Tone sequence



Wiring diagram 2

Wire	Tone sequence		
	1	2	3
green	VDC	0 V	VDC
yellow	0 V	VDC	VDC

Tone sequence, self-adjusting



16 ... 63 VDC

Tone	green	yellow	brown
1	16 – 63 VDC	0 V	0 V
2	0 V	16 – 63 VDC	0 V
3	16 – 63 VDC	16 – 63 VDC	0 V
4	0 V	0 V	16 – 63 VDC
5	16 – 63 VDC	0 V	16 – 63 VDC
6	0 V	16 – 63 VDC	16 – 63 VDC

50 ... 143 VDC

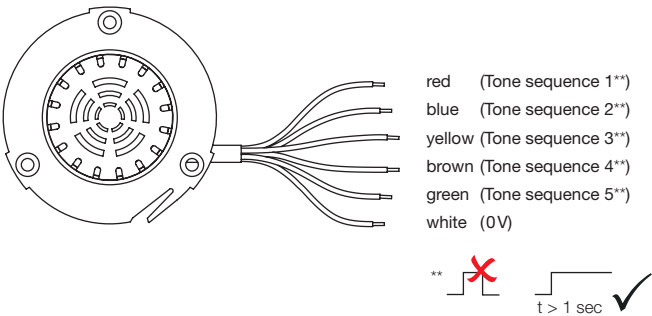
Tone	green	yellow	brown
1	50 – 143 VDC	0 V	0 V
2	0 V	50 – 143 VDC	0 V
3	50 – 143 VDC	50 – 143 VDC	0 V
4	0 V	0 V	50 – 143 VDC
5	50 – 143 VDC	0 V	50 – 143 VDC
6	0 V	50 – 143 VDC	50 – 143 VDC

Wiring diagram 3

56 Glass mounting

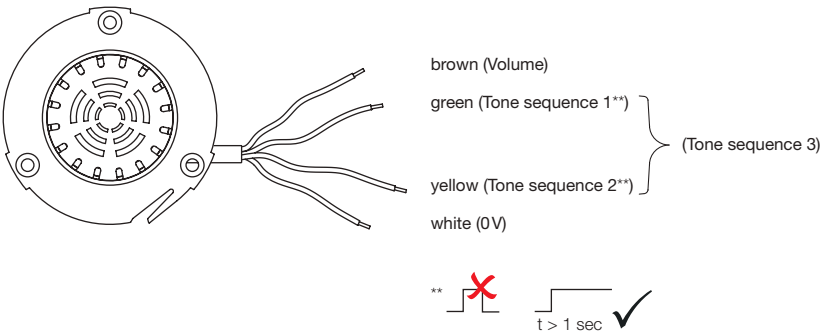
Component layouts

5-Tone sequence



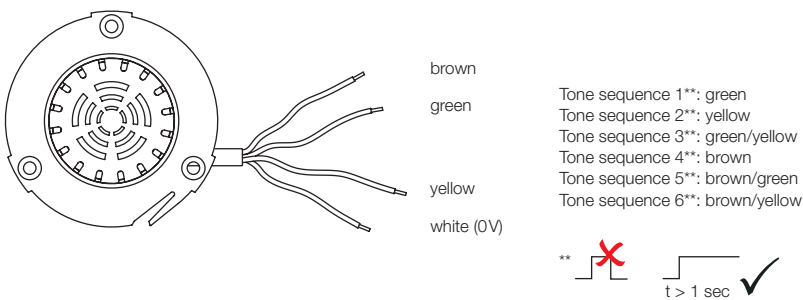
Bauteilelayout 4

3-Tone sequence



Bauteilelayout 5

6-Tone sequence, self-adjusting



Bauteilelayout 6


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 pushbutton, front mounting	RAL 3020	Red	Plastic	56-2200
	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 pushbutton; double side pushbutton external	RAL 9017	Black	Plastic	56-1000
	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 Ø 87 mm

Product attribute	Colour similar RAL	Front bezel colour	Front bezel material	Part No.
For single side pushbutton, front mounting, height 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

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 Ø 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

- 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

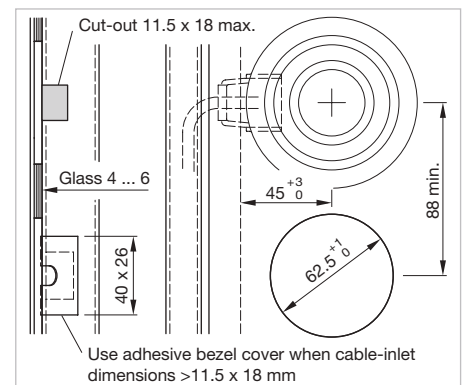


Cable cover standard

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

Additional Information

- Additional cable covers are available on request



Mounting cut-outs [mm]

56 Components

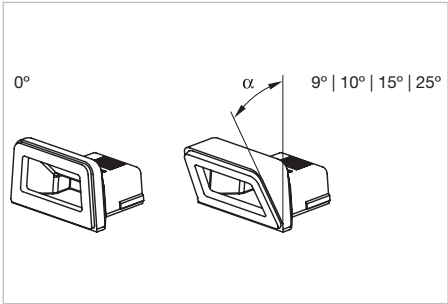


Cable cover funnel

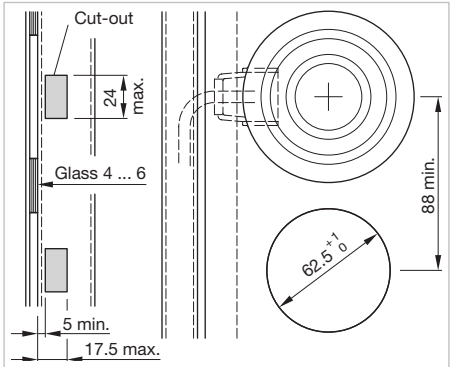
Cable cover	Part No.
☐ Funnel 0°	56-992B
☐ Funnel 10°	56-992C
☐ Funnel 15°	56-992D
☐ Funnel 25°	56-992E
☐ Funnel 9°	56-992F

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



Dimensions [mm]



Mounting cut-outs [mm]



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

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**

Dimension	Colour	Part No.
100 x 100 mm	white	56-999

Additional Information

- For dismantling of front bezel
- 3 mm thick

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

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

56 Technical data

Indicator

Material

Connection cable

Halogene free plastic mixture

Cap

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

Symbol Illumination

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 (Voltage interruption class S1)

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

UKCA

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 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 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 8 mm

Double side pushbutton for glass mounting M4 x 25 mm

Single side pushbutton for glass mounting M4 x 20 mm
(for glass ≥ 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

6 N ... 12 N

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 illumination

Units compliant to

EN 14752

EN 50155 (Voltage interruption class S1)

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

Environmental conditions

Storage temperature

-45 °C ... +90 °C

Operating temperature

-40 °C ... +80 °C

56 Technical data

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

UKCA

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

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 × 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 (Voltage interruption class S1)

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 °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/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/s² 5 h per axis, according to EN IEC 60068-2-6

Approvals

Approbations

TSI PRM (EBC)

Conformities

CE

UKCA

2014/30/EU (EMC)

1300/2014/EU (TSI PRM)

2011/65/EU (RoHS)

56 Technical data

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

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 (Voltage interruption class S1)
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

10–30 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 °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/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/s² 5 h per axis, according to EN IEC 60068-2-6

Approvals

Conformities

CE

UKCA

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 x 0.5 mm²

6-tone sequences module: 6 x 0.5 mm²

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 ±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.

56 Technical data

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 ... 3000 Hz $\pm 1\%$

480 Hz ... 3000 Hz $\pm 1\%$ volume ± 2.5 dB accuracy

(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:

66 dB (A) @ 1.5m @ 1 kHz

Level 17 for 3-tone sequences module

Level 5 for 5-tone sequences module

6-tone sequences module:

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

Adaptation in 19 steps, 1.5 dB (A) per step,

level 1 corresponds to 48 dB (A) @ 1.5m @ 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 °C/97 %, +55 °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

UKCA

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 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 0.80 Nm ... 1 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 °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

UKCA

EAO reserves the right to alter specifications without further notice.

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.

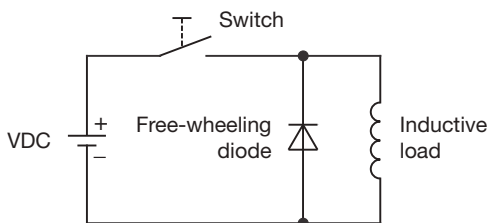
Fig. 1 shows an inductive load with a free-wheeling diode connected in parallel. This free-wheeling diode provides a path for the inductor current to flow when the current is interrupted by the switch. Without this free-wheeling diode, the voltage across the coil will be limited only by dielectric breakdown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

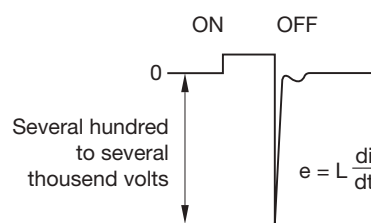
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current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

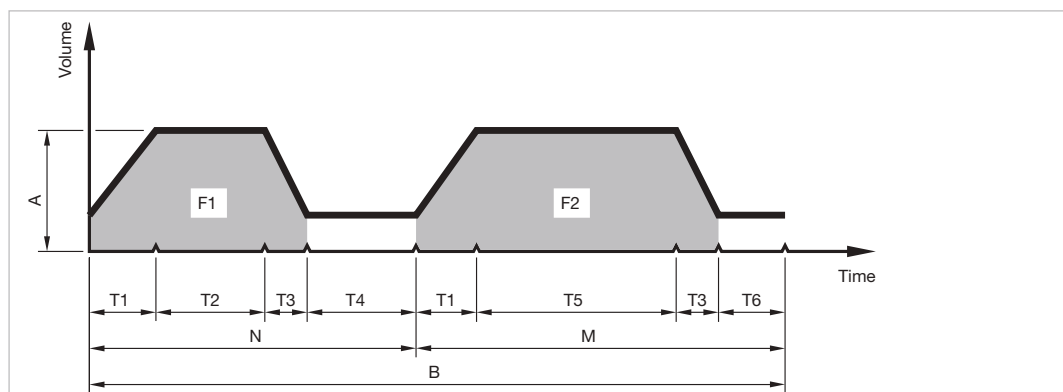


Counter EMF
over load without free-wheeling diode
Fig. 2



56 Application guidelines

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
M	Number of repetitions of tone 2
A	Volume level (± 8 dB) @ 10 cm
B	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

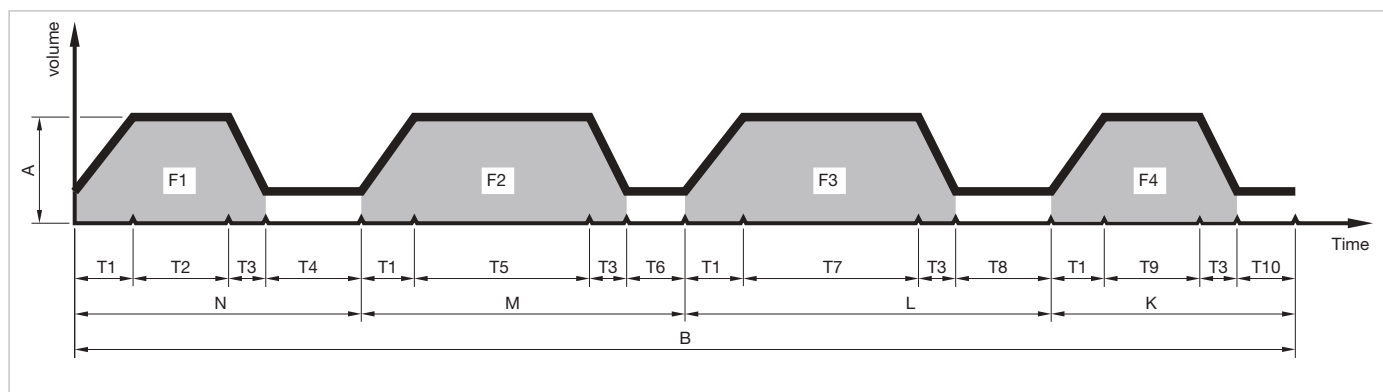
Tone sequences 1-3 Transportation (T1)				
	Parameter	Sequence 1 Door enabled	Sequence 2 Door closing	Sequence 3 Signal for visual impaired people
Tone 1	F1	1500 Hz	1900 Hz	600 Hz
	T2	∞	50 ms	50 ms
	T4	250 ms	50 ms	20 ms
	N	∞	∞	2
Tone 2	F2	deactivated	deactivated	500 Hz
	T5	deactivated	deactivated	1000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

Tone sequences 1-5 Transportation (T)						
	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
	T6	deactivated	0 ms	deactivated	deactivated	deactivated
	M	deactivated	1	deactivated	deactivated	deactivated
General	A	3 / 78 dB (A)	3 / 78 dB (A)	5 / 90 dB (A)	3 / 78 dB (A)	3 / 78 dB (A)
	B	∞	∞	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 sequences 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	A	4 / 84 dB (A)	4 / 84 dB (A)	5 / 90 dB (A)	5 / 90 dB (A)	4 / 84 dB (A)
	B	∞	∞	∞	∞	∞
	T1	0 ms	0 ms	0 ms	0 ms	0 ms
	T3	200 ms	0 ms	500 ms	0 ms	0 ms

56 Application guidelines

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



Diagram

F1	Frequency 1 of a tone sequence	L	Number of repetitions of tone 3
T2	Playing time tone 1	F4	Frequency 4 of a tone sequence
T4	Break	T9	Playing time tone 4
N	Number of repetitions of tone 1	T10	Break
F2	Frequency 2 of a tone sequence	K	Number of repetitions of tone 4
T5	Playing time tone 2	A	Basic volume level
T6	Break	D	Acoustic pressure difference
M	Number of repetitions of tone 2	B	Number of repetitions of the complete tone sequence, or blockage of the tone sequence
F3	Frequency 3 of a tone sequence	T1	Fade-in tone 1 to 4
T7	Playing time tone 3	T3	Fade-out tone 1 to 4
T8	Break		

Note

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 sequences 6 1-6							
	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	–	–	–	–
	T8	deactivated	deactivated	–	–	–	–
	L	deactivated	deactivated	–	–	–	–
Tone 4	F4	deactivated	deactivated	–	–	–	–
	T9	deactivated	deactivated	–	–	–	–
	T10	deactivated	deactivated	–	–	–	–
	K	deactivated	deactivated	–	–	–	–
General	A	48 dB (A) @ 1.5m	48 dB (A) @ 1.5m	–	–	–	–
	D	+5 db	+5 db	–	–	–	–
	B	∞	∞	–	–	–	–
	T1	0 ms	0 ms	–	–	–	–
	T3	0 ms	0 ms	–	–	–	–

Part No.	Page	Part No.	Page	Part No.	Page
56-1520.1501	9	56-8400	39	704.900.4B	49
56-1520.1502	9	56-8700	39	704.900.5B	49
56-1520.1503	9	56-8200	39	704.910.1B	50
56-1520.1504	9	56-8500	39	704.910.2B	50
56-1520.1505	9	56-991	40	704.910.3B	50
56-1520.1506	9	56-991D	40	704.910.4B	50
56-1520.1601	9	704.907.1	41	704.911.3B	50
56-1520.1602	9	704.907.2	41	704.911.4B	50
56-1520.1603	9	704.907.3	41	704.911.5B	50
56-1520.1604	9	704.907.4	41	56-993	51
56-1520.1605	9	704.907.5	41	56-998	51
56-1520.1606	9	704.908.1	41	56-999	51
56-1520.2501	9	704.908.2	41		
56-1520.2502	9	704.908.3	41		
56-1520.2503	9	704.908.4	41		
56-1520.2504	9	704.908.5	41		
56-1520.2505	9	704.917.1	42		
56-1520.2506	10	704.917.2	42		
56-1520.2601	10	704.917.3	42		
56-1520.2602	10	704.917.4	42		
56-1520.2603	10	704.917.5	42		
56-1520.2604	10	704.918.1	42		
56-1520.2605	10	704.918.2	42		
56-1520.2606	10	704.918.3	42		
56-1520.3101	10	704.918.4	42		
56-1520.3102	10	704.918.5	42		
56-1520.3103	10	704.905.1	43		
56-1520.3104	10	704.905.2	43		
56-1520.3105	10	704.905.3	43		
56-1520.3106	10	704.905.4	43		
56-1520.3201	10	704.905.5	43		
56-1520.3202	10	704.915.1	44		
56-1520.3203	10	704.915.2	44		
56-1520.3204	10	704.915.3	44		
56-1520.3205	10	704.915.4	44		
56-1520.3206	10	704.915.5	44		
56-1520.3301	10	704.901.1/D	45		
56-1520.3302	10	704.901.2/D	45		
56-1520.3303	10	704.901.3/D	45		
56-1520.3304	10	704.901.4/D	45		
56-1520.3305	10	704.901.5/D	45		
56-1520.3306	10	704.905.1/D	45		
56-1520.3401	10	704.905.2/D	45		
56-1520.3402	10	704.905.4/D	45		
56-1520.3403	10	704.905.5/D	45		
56-1520.3404	10	704.915.1/D	46		
56-1520.3405	10	704.915.2/D	46		
56-1520.3406	10	704.915.3/D	46		
56-2200	37	704.915.4/D	46		
56-2400	37	704.915.5/D	46		
56-2500	37	704.900.1	47		
56-2600	37	704.900.2	47		
56-4600	37	704.900.3	47		
56-1000	37	704.900.4	47		
56-1200	37	704.900.5	47		
56-1400	37	704.901.1	47		
56-1500	37	704.901.2	47		
56-1600	37	704.901.3	47		
56-1800	37	704.901.4	47		
56-1800A	37	704.901.5	47		
56-3600	37	704.902.1	47		
56-1400.2714	37	704.902.2	47		
56-1800.2715	37	704.902.3	47		
56-1200.2713	37	704.902.4	47		
56-5200	38	704.902.5	47		
56-5400	38	704.910.1	48		
56-5500	38	704.910.2	48		
56-5600	38	704.910.3	48		
56-5800	38	704.910.4	48		
56-5800A	38	704.910.5	48		
56-7600	38	704.911.1	48		
56-1291	38	704.911.2	48		
56-1391	38	704.911.3	48		
56-1392	38	704.911.4	48		
56-1491	38	704.911.5	48		
56-1492	38	704.912.1	48		
Kunststoff	38	704.912.3	48		
56-1691	38	704.912.4	48		
56-8000.A	38	704.912.5	48		
56-8000.1A	38	704.900.1B	49		
56-8000.3A	38	704.900.2B	49		
56-8000.5A	38	704.900.3B	49		