Series 56

Characteristics
The compact Series 56 is especially suited for:

- Front mounting
- Rear mounting
- Glass mounting

It is characterised by a large ring illumination and an excellent tactile feel.

Functions
The Series 56 incorporates the following functions:

- Indicator
- Pushbutton
- Illuminated pushbutton
- Lever switch
- Sound module
- Flashing warning beacon

Market segments
The EAO Series 56 is especially suited for applications in the segments:

- Public transportation
- Building technology

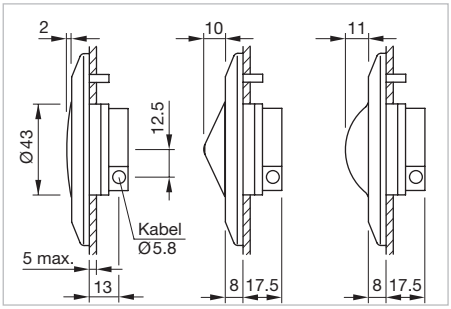
Please refer to the EAO website to obtain detailed information regarding this series **www.products.eao.com**
Configure a product to your exact needs and request a quotation.

Overview

56 Front mounting

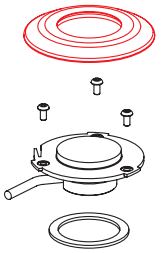
Single side indicator

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



Dimensions [mm] [mm]

Equipment consisting of



Front bezel *Page 25*

Switching unit

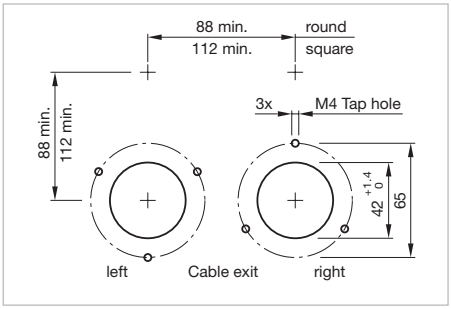
Sealing

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

- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at http://www.eao.com/offer56



Mounting cut-outs [mm]

Front cap		
☐ Plastic colourless flush	☐ Plastic colourless raised	☐ Plastic colourless half round

Marking (Text or symbol)				
☐ without marking				
☐ with marking	☐ 1 line	☐ 2 line	☐ 3 line	☐ symbol

	Example: **Open**	Example: **Door close**	Example: **Door out of order**	☐ ☐ ☐ ☐ ☐ ☐

Illumination				
☐ LED green	☐ LED red	☐ LED yellow	☐ LED white	☐ LED blue

Supply voltage illumination	
☐ 24 VDC	☐ 110 VDC

Tolerance +25 % … –30 %

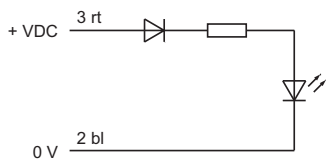
Cable exit	
☐ cable exit right	☐ cable exit left

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

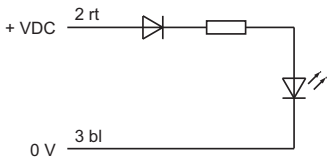
Cable and Connector type	
Cable	Connector
☐ 2 x 0.24 mm²	☐ core end-sleeves
	☐ AMP Connector Mate-N-Lok (Wiring diagram 2)
	☐ DEUTSCH connector (Wiring diagram 2)
	☐ AMP Connector 2.8 x 0.8 (Wiring diagram 1)
	☐ AMP Connector 6.3 x 0.8 (Wiring diagram 2)

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

The drawings you will find from page 36
The component layout No. 1 you will find from page 36



Wiring diagram 1

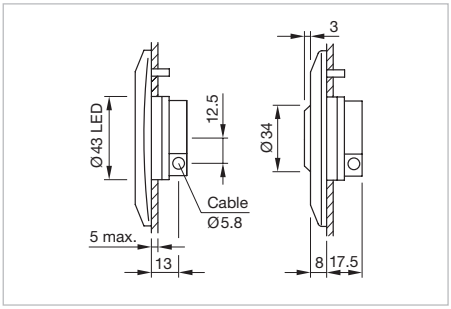


Wiring diagram 2

56 Front mounting

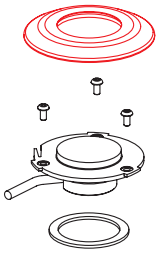
Single side pushbutton

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



Dimensions [mm]

Equipment consisting of



Front bezel *Page 25*

Switching unit

Sealing

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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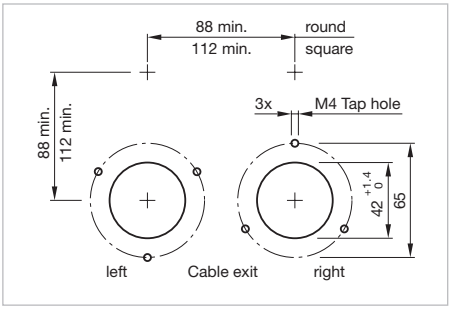


Mounting cut-outs [mm]

Lens		
☐ flush, plastic	☐ 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 RAL 9017	☐ black	☐ black
☐ orange RAL 2003		

Lens marking						
☐ without symbol						
☐ with symbol aluminium, raised (milled)	 ☐ Symbol-No. 00.835	 ☐ Symbol-No. 00.836	 ☐ Symbol-No. 00.868	 ☐ Symbol-No. 00.869	 ☐ Symbol-No. 40089	 ☐ Symbol-No. 60523
☐ 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 +25 % … –30 %

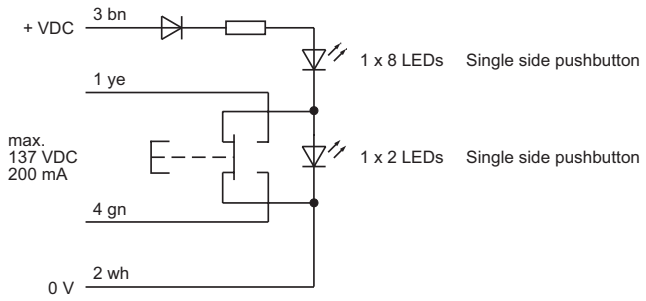
Cable exit	
☐ cable exit right	☐ cable exit left

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

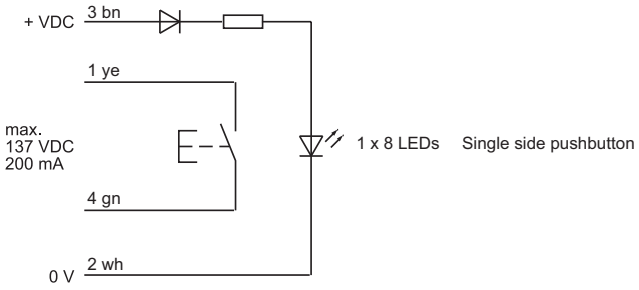
Cable and Connector type	
Cable	Connector
☐ 2 x 0.5 mm² (Wiring diagram 5)	☐ core end-sleeves
☐ 4 x 0.5 mm² (Wiring diagram 1, 2, 3, 4)	☐ AMP Connector Mate-N-Lok (Wiring diagram 3, 4)
	☐ DEUTSCH connector (Wiring diagram 3, 4)
	☐ AMP Connector 2.8 x 0.8 (Wiring diagram 1, 2)
	☐ AMP Connector 6.3 x 0.8 (Wiring diagram 3, 4)

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

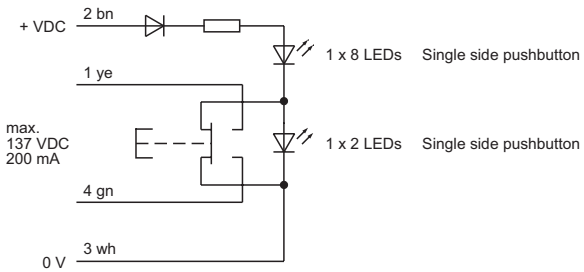
The drawings you will find from page 36
The component layouts No. 2 and 3 you will find from page 36



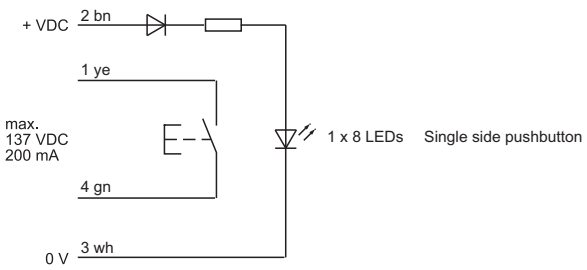
Wiring diagram 1



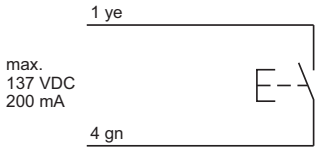
Wiring diagram 2



Wiring diagram 3



Wiring diagram 4



Wiring diagram 5

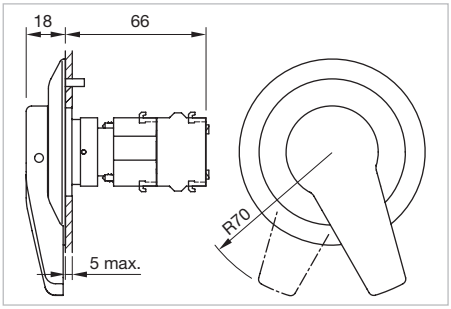
56 Front mounting

Lever switch

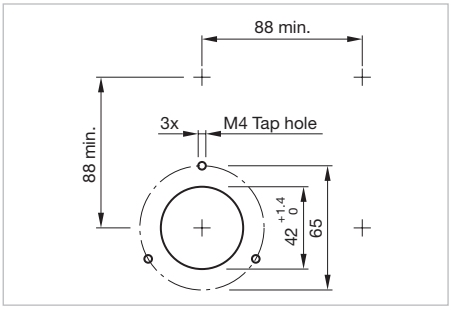
The preview is based on a sample product. This can differ from your current configuration.

Additional Information

- Lever aluminium naturel anodized
- Two switching positions
- Switching action: 0-maintain
- 45° switching angle
- Switching element see technical data Series 04



Dimensions [mm]

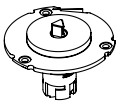


Mounting cut-outs [mm]

Equipment consisting of

Lever

Front bezel *Page 25*



Actuator

Sealing

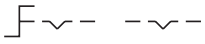
Bayonet flange

Switching element *Page 27*

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.

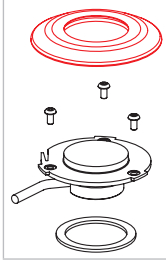
Part No.	Weight
704.107.1	0.314 kg



Wiring diagram 1

Multi-Tone Sound Module

Equipment consisting of



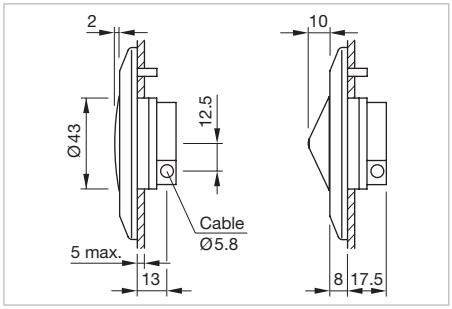
Front bezel *Page 25*

MTSM unit

Sealing

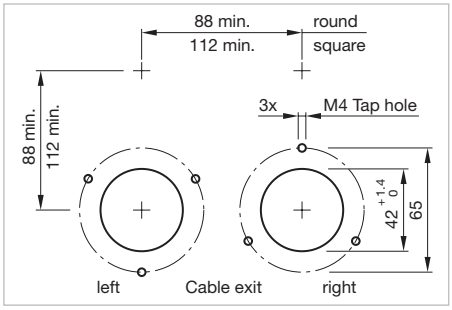
Each part listed below includes all the black components shown in the 3D-drawing.

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

- The descriptions of the standard tone sequences see «Application guidelines»
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at http://www.eao.com/offer56

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

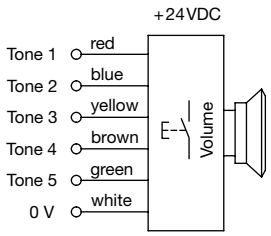
56 Front mounting

Cable and Connector type	
Cable	Connector
☐ 4x0.25mm²	☐ core end-sleeves
☐ 4x0.5mm²	☐ AMP Connector Mate-N-Lok
☐ 6x0.5mm²	☐ DEUTSCH connector
	☐ AMP Connector 2.8x0.8
	☐ AMP Connector 6.3x0.8

Housing		
☐ housing D73 (standard)	☐ housing reworked 50x50mm	☐ housing reworked 68.5x50mm

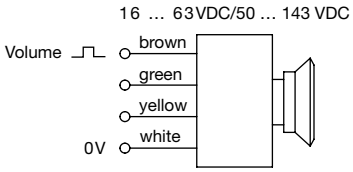
The drawings you will find from page 36
The component layouts No. 4 and 5 you will find from page 36

5-Tone sequence



Wiring diagram 1

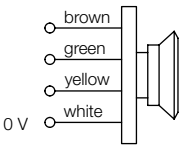
3-Tone sequence



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

Wiring diagram 2

6-Tone sequence



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

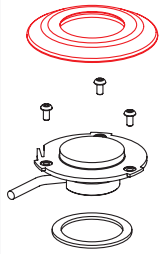
50 … 143 VDC

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

Flashing warning beacon

Equipment consisting of



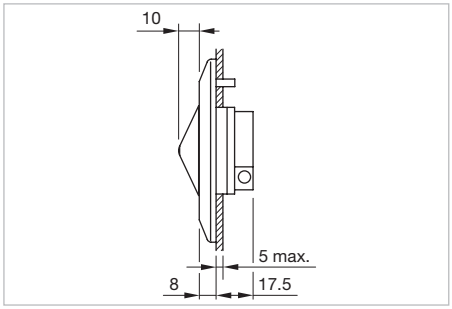
Front bezel *Page 25*

Indicator unit

Sealing

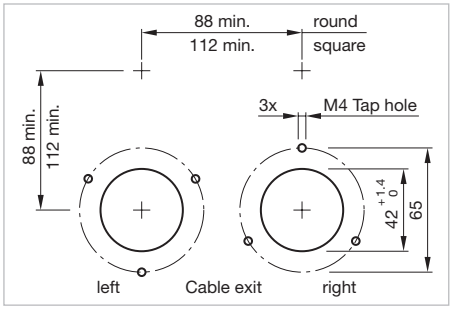
Each part listed below includes all the black components shown in the 3D-drawing.

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

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Front cap

☐ Plastic colourless raised

Illumination

☐ LED white

Supply voltage

☐ 24 VDC

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

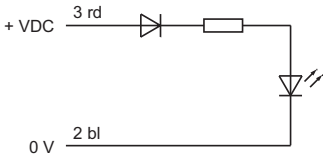
Cable and Connector type

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 x 0.8 (Wiring diagram 1)
	☐ AMP Connector 6.3 x 0.8 (Wiring diagram 2)

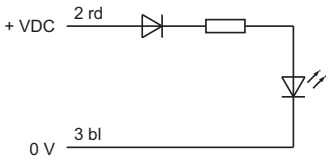
Front mounting

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

The drawings you will find from page 36
The component layout No. 1 you will find from page 36



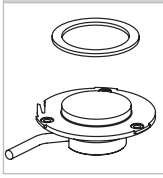
Wiring diagram 1



Wiring diagram 2

Single side indicator

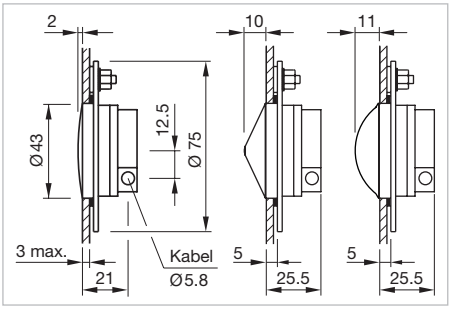
Equipment consisting of



Sealing

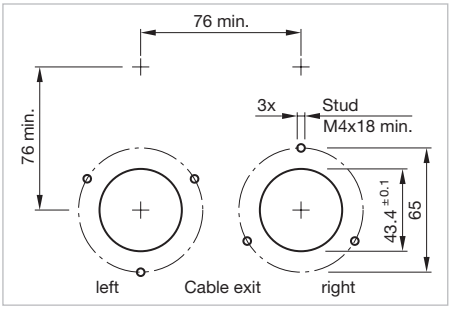
Switching unit

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.



Mounting cut-outs [mm]

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 http://www.eao.com/offer56

Front cap

☐ Plastic colourless flush	☐ Plastic colourless raised	☐ Plastic colourless half round

Marking (Text or symbol)

☐ without marking

☐ with marking	☐ 1 line	☐ 2 line	☐ 3 line	☐ symbol
	Example: Open	Example: Door close	Example: Door out of order	☐ ☐ ☐ ☐ ☐ ☐

Illumination

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

Supply voltage

☐ 24 VDC	☐ 110 VDC

Tolerance +25 % … –30 %

56 Rear mounting

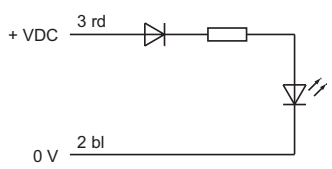
Cable exit	
☐ cable exit right	☐ cable exit left

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

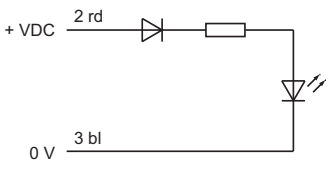
Cable + Connector type	
Cable	Connector
☐ 2*0.24 mm²	☐ core end-sleeves
	☐ AMP Connector Mate-N-Lok (Wiring diagram 2)
	☐ DEUTSCH connector (Wiring diagram 2)
	☐ AMP Connector 2.8x0.8 (Wiring diagram 1)
	☐ AMP Connector 6.3x0.8 (Wiring diagram 2)

Housing		
☐ housing D73 (standard)	☐ housing reworked 50x50 mm	☐ housing reworked 68.5x50 mm

The drawings you will find from page 36
The component layout No. 1 you will find from page 36



Wiring diagram 1

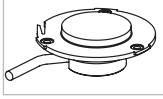


Wiring diagram 2

Single side pushbutton

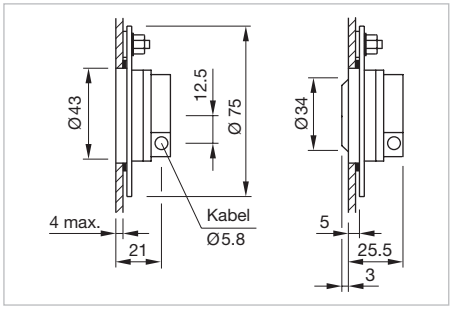
Equipment consisting of

Sealing



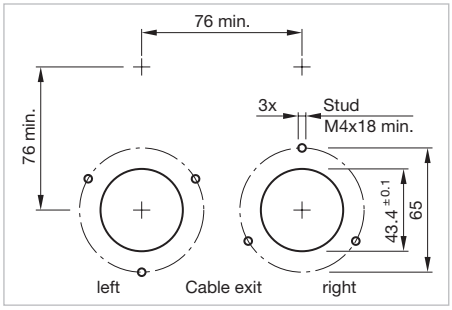
Switching unit

Each part 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]

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 http://www.eao.com/offer56

Lens		
☐ flush, plastic	☐ flush, aluminium	☐ raised, aluminium
☐ green RAL 6024	☐ naturel	☐ naturel
☐ red RAL 3020	☐ green	☐ green
☐ blue RAL 5017	☐ red	☐ red
☐ yellow RAL 1023	☐ blue	☐ blue
☐ light-grey RAL 7040	☐ yellow	☐ yellow
☐ black RAL 9017	☐ black	☐ black
☐ orange RAL 2003		

Lens marking

☐ without symbol

☐ with symbol aluminium, raised (milled)	 ☐ Symbol-No. 00.835	 ☐ Symbol-No. 00.836	 ☐ Symbol-No. 00.868	 ☐ Symbol-No. 00.869	 ☐ Symbol-No. 40089	 ☐ Symbol-No. 60523
☐ 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				
☐ 24 VDC	☐ 36 VDC	☐ 48 VDC	☐ 72 VDC	☐ 110 VDC

Tolerance +25 % … –30 %

56 Rear mounting

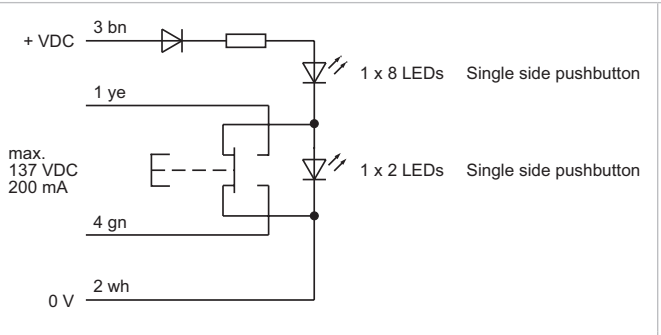
Cable exit	
☐ cable exit right	☐ cable exit left

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

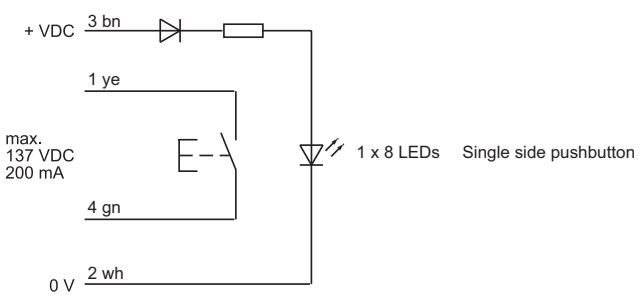
Cable + Connector type	
Cable	Connector
☐ 2 x 0.5 mm² (Wiring diagram 5)	☐ core end-sleeves
☐ 4 x 0.5 mm² (Wiring diagram 1, 2, 3, 4)	☐ AMP Connector Mate-N-Lok (Wiring diagram 3, 4)
	☐ DEUTSCH connector (Wiring diagram 3, 4)
	☐ AMP Connector 2.8 x 0.8 (Wiring diagram 1, 2)
	☐ AMP Connector 6.3 x 0.8 (Wiring diagram 3, 4)

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

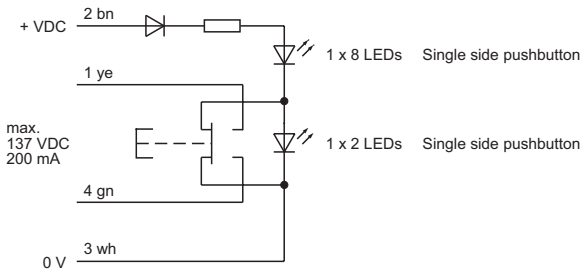
The drawings you will find from page 36
The component layout No. 2 you will find from page 36



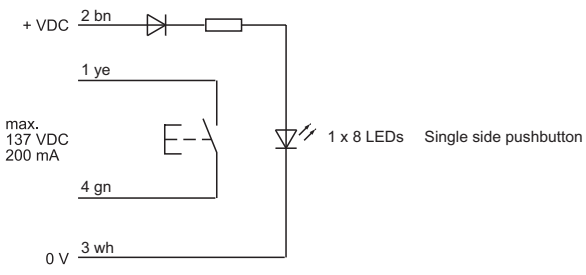
Wiring diagram 1



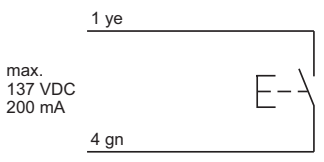
Wiring diagram 2



Wiring diagram 3



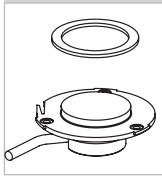
Wiring diagram 4



Wiring diagram 5

Multi-Tone Sound Module

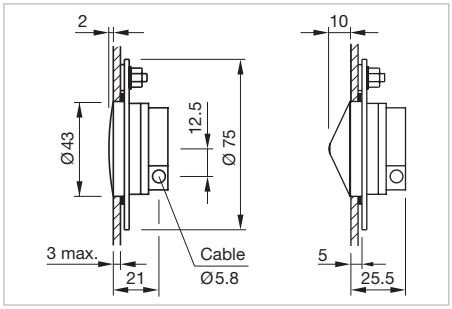
Equipment consisting of



Sealing

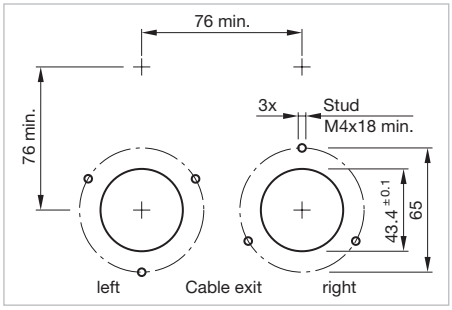
MTSM unit

Each part 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]

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 http://www.eao.com/offer56

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

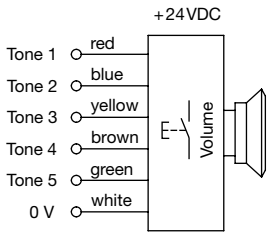
56 Rear mounting

Cable + Connector type	
Cable	Connector
☐ 4x0.25mm²	☐ core end-sleeves
☐ 4x0.5mm²	☐ AMP Connector Mate-N-Lok
☐ 6x0.5mm²	☐ DEUTSCH connector
	☐ AMP Connector 2.8x0.8
	☐ AMP Connector 6.3x0.8

Housing		
☐ housing D73 (standard)	☐ housing reworked 50x50mm	☐ housing reworked 68.5x50mm

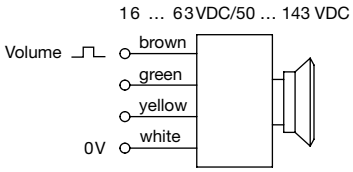
The drawings you will find from page 36
The component layouts No. 4, 5 and 6 you will find from page 36

5-Tone sequence



Wiring diagram 1

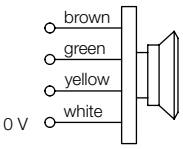
3-Tone sequence



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

Wiring diagram 2

6-Tone sequence



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

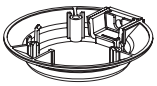
Single side pushbutton

Equipment consisting of

Front bezel *Page 25*

Switching unit

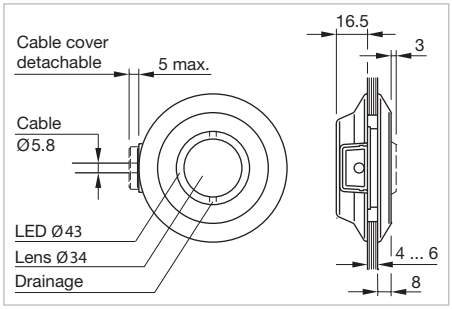
Cable cover



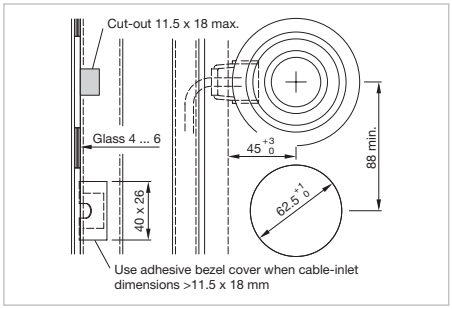
Cover

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 or fax. The electronic form is available at http://www.eao.com/offer56

Lens		
☐ flush, plastic	☐ flush, aluminium	☐ raised, aluminium
☐ green RAL 6024	☐ naturel	☐ naturel
☐ red RAL 3020	☐ green	☐ green
☐ blue RAL 5017	☐ red	☐ red
☐ yellow RAL 1023	☐ blue	☐ blue
☐ light-grey RAL 7040	☐ yellow	☐ yellow
☐ black RAL 9017	☐ black	☐ black
☐ orange RAL 2003		

Lens marking

☐ without symbol

☐ with symbol aluminium, raised (milled)	 ☐ Symbol-No. 00.835	 ☐ Symbol-No. 00.836	 ☐ Symbol-No. 00.868	 ☐ Symbol-No. 00.869	 ☐ Symbol-No. 40089	 ☐ Symbol-No. 60523
☐ 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

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

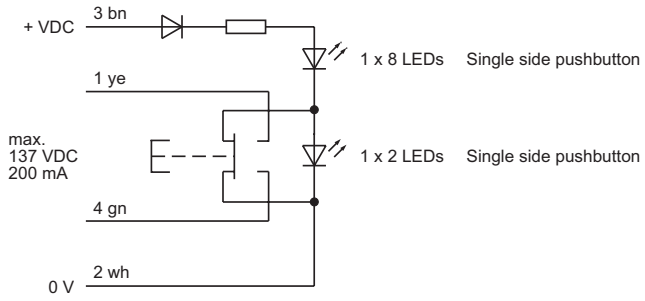
Tolerance +25 % … –30 %

56 Glass mounting

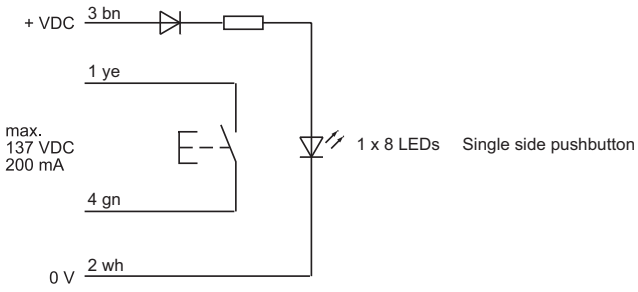
Cable length				
☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm	☐ _____ mm

Cable + Connector type	
Cable	Connector
☐ 2 x 0.5 mm² (without illumination, 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 x 0.8 (Wiring diagram 1, 2)
	☐ AMP Connector 6.3 x 0.8 (Wiring diagram 3, 4)

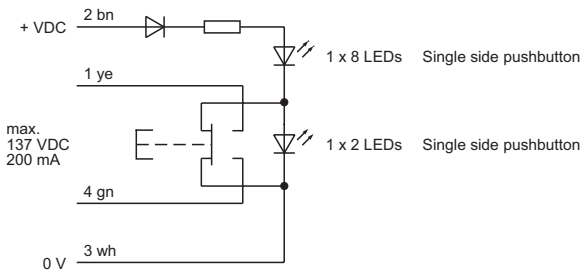
The component layouts No. 2 and 3 you will find from page 36



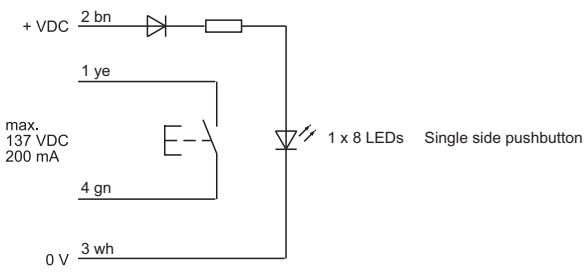
Wiring diagram 1



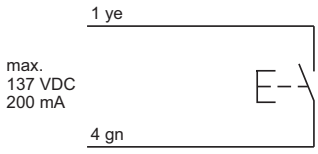
Wiring diagram 2



Wiring diagram 3



Wiring diagram 4

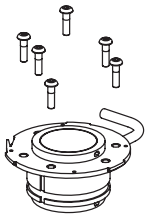


Wiring diagram 5

Double side pushbutton

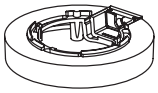
Equipment consisting of

Front bezel *Page 25*



Switching unit

Cable cover

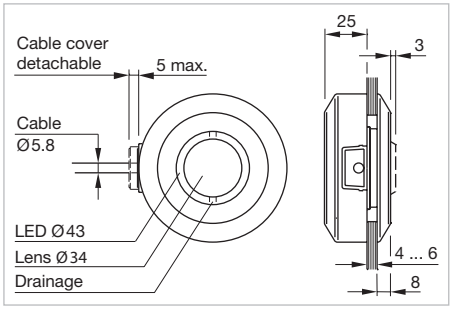


Flange

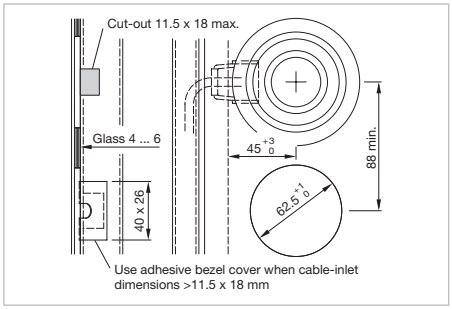
Front bezel internal *Page 25*

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.

Product features

- 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 or fax. The electronic form is available at http://www.eao.com/offer56

Lens		
☐ flush, plastic	☐ flush, aluminium	☐ raised, aluminium
☐ green RAL 6024	☐ naturel	☐ naturel
☐ red RAL 3020	☐ green	☐ green
☐ blue RAL 5017	☐ red	☐ red
☐ yellow RAL 1023	☐ blue	☐ blue
☐ light-grey RAL 7040	☐ yellow	☐ yellow
☐ black RAL 9017	☐ black	☐ black
☐ orange RAL 2003		

Lens marking						
☐ without symbol						
☐ with symbol aluminium, raised (milled)	 ☐ Symbol-No. 00.835	 ☐ Symbol-No. 00.836	 ☐ Symbol-No. 00.868	 ☐ Symbol-No. 00.869	 ☐ Symbol-No. 40089	 ☐ Symbol-No. 60523
☐ 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	☐ 16 green	☐ 16 red	☐ 8 red/2 green	☐ 8 green/2 red

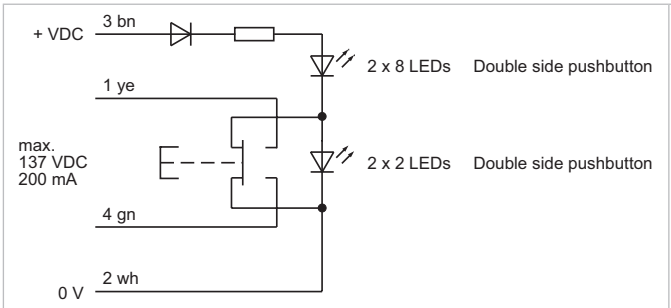
Supply voltage illumination	
☐ 24 VDC	☐ 110 VDC

Tolerance +25 % … –30 %

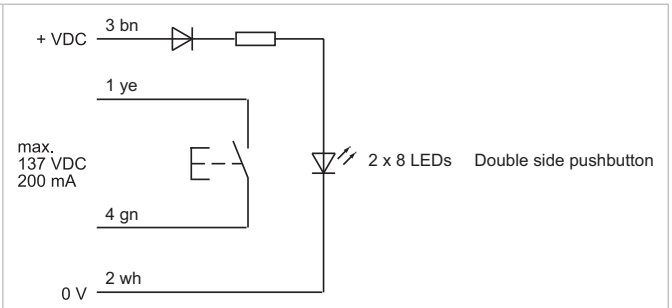
Cable length				
☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm	☐ _____ mm

Cable + Connector type	
Cable	Connector
☐ 2 x 0.5 mm² (without illumination, wiring diagram 1, 2)	☐ 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 x 0.8 (Wiring diagram 1, 2)
	☐ AMP Connector 6.3 x 0.8 (Wiring diagram 3, 4)

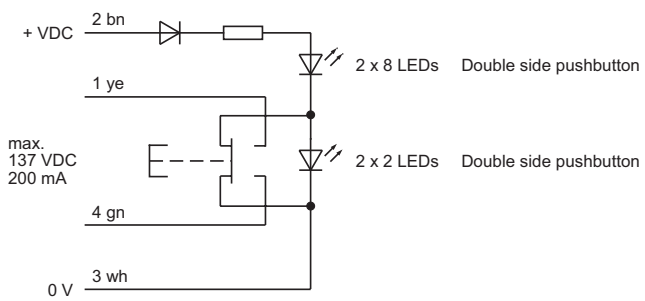
The component layouts No. 2 and 3 you will find from page 36



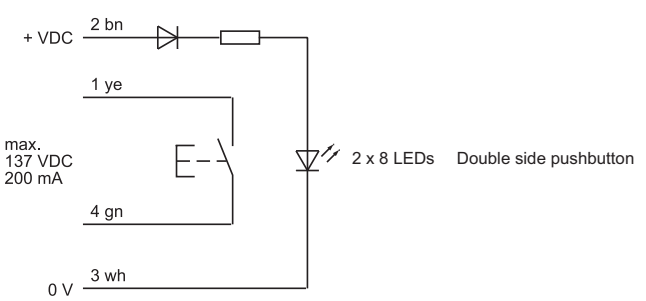
Wiring diagram 1



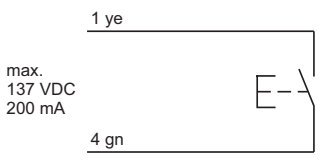
Wiring diagram 2



Wiring diagram 3



Wiring diagram 4



Wiring diagram 5

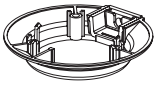
Multi-Tone Sound Module

Equipment consisting of

Front bezel *Page 25*

MTSM unit

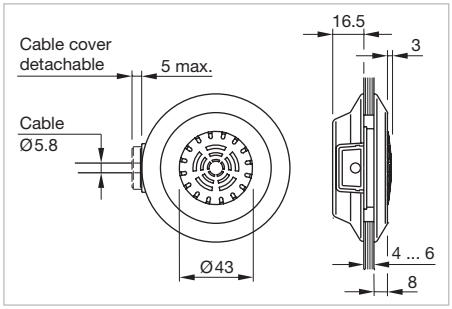
Cable cover



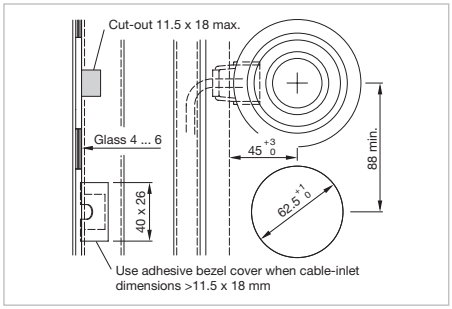
Cover

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.

Product features

- 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 or fax. The electronic form is available at http://www.eao.com/offer56

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

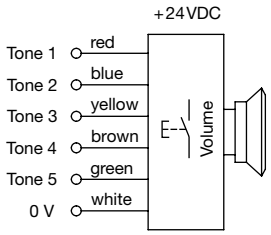
Cable length				
☐ A = 200 mm	☐ A = 500 mm	☐ A = 1000 mm	☐ A = 1500 mm	☐ _____ mm

Cable + Connector type	
Cable	Connector
☐ 4 * 0.5 mm²	☐ core end-sleeves
	☐ AMP Connector Mate-N-Lok
	☐ DEUTSCH connector
	☐ AMP Connector 2.8 x 0.8
	☐ AMP Connector 6.3 x 0.8

The component layout No. 5 you will find from page 36

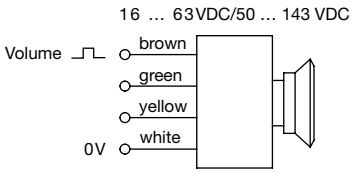
56 Glass mounting

5-Tone sequence



Wiring diagram 1

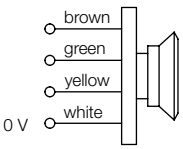
3-Tone sequence



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

Wiring diagram 2

6-Tone sequence



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

Front

Front bezel

Additional Information

- Special colours for front bezel on request

Product attribute	Colour	Front bezel	Part No.	Weight
 **Front bezel, front dimension 87 x 87 mm**				
For single side indicator and single side pushbutton, front mounting	RAL 3020	Plastic red	**56-2200**	0.026 kg
	RAL 1023	Plastic yellow	**56-2400**	0.026 kg
	RAL 6024	Plastic green	**56-2500**	0.026 kg
	RAL 5017	Plastic blue	**56-2600**	0.026 kg
		Metal matt chrome	**56-4600**	0.085 kg
 **Front bezel, front dimension Ø 87 mm**				
For single side indicator and single side pushbutton; double side push-button external	RAL 9017	Pastic black	**56-1000**	0.018 kg
	RAL 3020	Plastic red	**56-1200**	0.018 kg
	RAL 2003	Plastic orange	**56-1300**	0.018 kg
	RAL 1023	Plastic yellow	**56-1400**	0.018 kg
	RAL 6024	Plastic green	**56-1500**	0.018 kg
	RAL 5017	Plastic blue	**56-1600**	0.018 kg
	RAL 7043	Plastic darkgrey	**56-1800**	0.018 kg
	RAL 7040	Plastic lightgrey	**56-1800A**	0.018 kg
		Metal matt chrome	**56-3600**	0.07 kg

Front bezel internal

Additional Information

- For double side pushbutton

Dimension	Colour	Front bezel	Part No.	Weight
 **Front bezel internal**				
Ø 87 mm	RAL 3020	Plastic red	**56-5200**	0.09 kg
	RAL 2003	Plastic orange	**56-5300**	0.09 kg
	RAL 1023	Plastic yellow	**56-5400**	0.09 kg
	RAL 6024	Plastic green	**56-5500**	0.09 kg
	RAL 5017	Plastic blue	**56-5600**	0.09 kg
	RAL 7043	Plastic darkgrey	**56-5800**	0.09 kg
	RAL 7040	Plastic lightgrey	**56-5800A**	0.09 kg
		Metal matt chrome	**56-7600**	0.115 kg

Front bezel for blind and visually impaired persons round

Additional Information

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

Marking	Colour	Front bezel	Part No.	Weight
 **Front bezel for blind and visually impaired persons round, front dimension Ø 87 mm**				
Braille + Open	RAL 3020	Plastic red	**56-1291**	0.018 kg
	RAL 2003	Plastic orange	**56-1391**	0.018 kg
Braille + Close	RAL 2003	Plastic orange	**56-1392**	0.018 kg
Braille + Open	RAL 1023	Plastic yellow	**56-1491**	0.018 kg
Braille + Close	RAL 1023	Plastic yellow	**56-1492**	0.018 kg

Front bezel for blind and visually impaired persons triangular

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

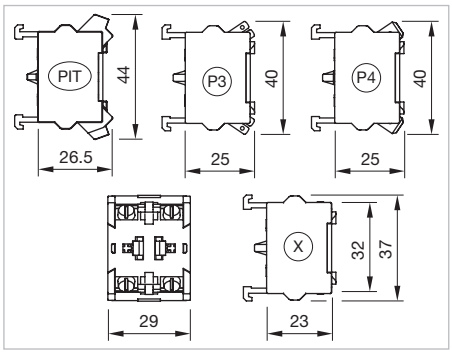
Marking	Colour	Front bezel	Part No.	Weight
 **Front bezel for blind and visually impaired persons triangular, front dimension 106 x 101 mm**				
Braille + SOS	RAL 1023	Plastic yellow	**56-8000.A**	0.029 kg
	RAL 1028	Plastic melon yellow	**56-8000.1A**	0.029 kg
	RAL 3020	Plastic red	**56-8000.3A**	0.029 kg
	RAL 6020	Plastic green	**56-8000.5A**	0.029 kg

Rear side

Switching element

Additional Information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]
PIT = Push-in terminal,
P3 = Plug-in terminal 6.3 x 0.8 mm,
P4 = Double plug-in terminal 6.3 x 0.8 mm,
X = Screw terminal

Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Wiring diagram	Weight
 **Switching element**								
250 VAC	6 A	Snap-action switching element	1 NO	Gold	Push-in Terminal	**704.907.1**	3	0.02 kg
			1 NC	Gold	Push-in Terminal	**704.907.2**	1	0.02 kg
			2 NO	Gold	Push-in Terminal	**704.907.3**	5	0.027 kg
			2 NC	Gold	Push-in Terminal	**704.907.4**	4	0.027 kg
			1 NC + 1 NO	Gold	Push-in Terminal	**704.907.5**	2	0.027 kg
			1 NO	Silver	Push-in Terminal	**704.908.1**	3	0.02 kg
			1 NC	Silver	Push-in Terminal	**704.908.2**	1	0.02 kg
			2 NO	Silver	Push-in Terminal	**704.908.3**	5	0.027 kg
			2 NC	Silver	Push-in Terminal	**704.908.4**	4	0.027 kg
			1 NC + 1 NO	Silver	Push-in Terminal	**704.908.5**	2	0.027 kg

Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Wiring diagram	Weight
 **Switching element**								
250 VAC	6 A	Slow-make switching element	1 NO	Gold	Push-in Terminal	**704.917.1**	3	0.019 kg
			1 NC	Gold	Push-in Terminal	**704.917.2**	1	0.019 kg
			2 NO	Gold	Push-in Terminal	**704.917.3**	5	0.026 kg
			2 NC	Gold	Push-in Terminal	**704.917.4**	4	0.019 kg
			1 NC + 1 NO	Gold	Push-in Terminal	**704.917.5**	2	0.026 kg
			1 NO	Silver	Push-in Terminal	**704.918.1**	3	0.019 kg
			1 NC	Silver	Push-in Terminal	**704.918.2**	1	0.019 kg
			2 NO	Silver	Push-in Terminal	**704.918.3**	5	0.026 kg
			2 NC	Silver	Push-in Terminal	**704.918.4**	4	0.019 kg
			1 NC + 1 NO	Silver	Push-in Terminal	**704.918.5**	2	0.026 kg
 **Switching element**								
500 VAC	10 A	Snap-action switching element	1 NO	Silver	Plug 6.3 x 0.8 mm	**704.905.1**	3	0.021 kg
			1 NC	Silver	Plug 6.3 x 0.8 mm	**704.905.2**	1	0.021 kg
			2 NO	Silver	Plug 6.3 x 0.8 mm	**704.905.3**	5	0.028 kg
			2 NC	Silver	Plug 6.3 x 0.8 mm	**704.905.4**	4	0.028 kg
			1 NC + 1 NO	Silver	Plug 6.3 x 0.8 mm	**704.905.5**	2	0.028 kg
 **Switching element**								
500 VAC	10 A	Slow-make switching element	1 NO	Silver	Plug 6.3 x 0.8 mm	**704.915.1**	3	0.021 kg
			1 NC	Silver	Plug 6.3 x 0.8 mm	**704.915.2**	1	0.021 kg
			2 NO	Silver	Plug 6.3 x 0.8 mm	**704.915.3**	5	0.028 kg
			2 NC	Silver	Plug 6.3 x 0.8 mm	**704.915.4**	4	0.028 kg
			1 NC + 1 NO	Silver	Plug 6.3 x 0.8 mm	**704.915.5**	2	0.028 kg
 **Switching element**								
500 VAC	10 A	Snap-action switching element	1 NO	Gold	Double plug 6.3 x 0.8 mm	**704.901.1/D**	3	0.026 kg
			1 NC	Gold	Double plug 6.3 x 0.8 mm	**704.901.2/D**	1	0.026 kg
			2 NO	Gold	Double plug 6.3 x 0.8 mm	**704.901.3/D**	5	0.033 kg
			2 NC	Gold	Double plug 6.3 x 0.8 mm	**704.901.4/D**	4	0.033 kg

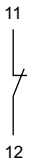
Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Wiring diagram	Weight
500 VAC	10 A	Snap-action switching element	1 NC + 1 NO	Gold	Double plug 6.3 x 0.8 mm	**704.901.5/D**	2	0.033 kg
			1 NO	Silver	Double plug 6.3 x 0.8 mm	**704.905.1/D**	3	0.026 kg
			1 NC	Silver	Double plug 6.3 x 0.8 mm	**704.905.2/D**	1	0.026 kg
			2 NO	Silver	Double plug 6.3 x 0.8 mm	**704.905.3/D**	5	0.033 kg
			2 NC	Silver	Double plug 6.3 x 0.8 mm	**704.905.4/D**	4	0.033 kg
			1 NC + 1 NO	Silver	Double plug 6.3 x 0.8 mm	**704.905.5/D**	2	0.033 kg
 **Switching element**								
500 VAC	10 A	Slow-make switching element	1 NO	Silver	Double plug 6.3 x 0.8 mm	**704.915.1/D**	3	0.025 kg
			1 NC	Silver	Double plug 6.3 x 0.8 mm	**704.915.2/D**	1	0.025 kg
			2 NO	Silver	Double plug 6.3 x 0.8 mm	**704.915.3/D**	5	0.032 kg
			2 NC	Silver	Double plug 6.3 x 0.8 mm	**704.915.4/D**	4	0.032 kg
			1 NC + 1 NO	Silver	Double plug 6.3 x 0.8 mm	**704.915.5/D**	2	0.032 kg
 **Switching element**								
500 VAC	10 A	Snap-action switching element	1 NO	Gold	Screw	**704.901.1**	3	0.021 kg
			1 NC	Gold	Screw	**704.901.2**	1	0.021 kg
			2 NO	Gold	Screw	**704.901.3**	5	0.028 kg
			2 NC	Gold	Screw	**704.901.4**	4	0.028 kg
			1 NC + 1 NO	Gold	Screw	**704.901.5**	2	0.028 kg
			1 NO	Silver	Screw	**704.900.1**	3	0.021 kg
			1 NC	Silver	Screw	**704.900.2**	1	0.021 kg
			2 NO	Silver	Screw	**704.900.3**	5	0.028 kg
			2 NC	Silver	Screw	**704.900.4**	4	0.028 kg
			1 NC + 1 NO	Silver	Screw	**704.900.5**	2	0.028 kg
			1 NO	Palladium	Screw	**704.902.1**	3	0.021 kg
			1 NC	Palladium	Screw	**704.902.2**	1	0.021 kg
			2 NO	Palladium	Screw	**704.902.3**	5	0.028 kg
			2 NC	Palladium	Screw	**704.902.4**	4	0.028 kg
			1 NC + 1 NO	Palladium	Screw	**704.902.5**	2	0.028 kg

56 Accessories

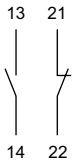
Switching element

Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Wiring diagram	Weight
500 VAC	10 A	Slow-make switching element	1 NO	Gold	Screw	**704.911.1**	3	0.021 kg
			1 NC	Gold	Screw	**704.911.2**	1	0.021 kg
			2 NO	Gold	Screw	**704.911.3**	5	0.028 kg
			2 NC	Gold	Screw	**704.911.4**	4	0.028 kg
			1 NC + 1 NO	Gold	Screw	**704.911.5**	2	0.028 kg
			1 NO	Silver	Screw	**704.910.1**	3	0.021 kg
			1 NC	Silver	Screw	**704.910.2**	1	0.021 kg
			2 NO	Silver	Screw	**704.910.3**	5	0.028 kg
			2 NC	Silver	Screw	**704.910.4**	4	0.028 kg
			1 NC + 1 NO	Silver	Screw	**704.910.5**	2	0.028 kg
			1 NO	Palladium	Screw	**704.912.1**	3	0.021 kg
			1 NC	Palladium	Screw	**704.912.2**	1	0.021 kg
			2 NO	Palladium	Screw	**704.912.3**	5	0.028 kg
			2 NC	Palladium	Screw	**704.912.4**	4	0.028 kg
			1 NC + 1 NO	Palladium	Screw	**704.912.5**	2	0.028 kg

Contacts: NC = Normally closed, NO = Normally open

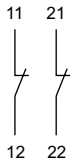


Wiring diagram 1

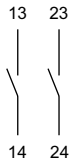


Wiring diagram 2

Wiring diagram 3

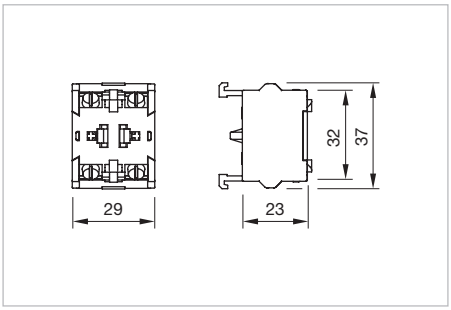


Wiring diagram 4



Wiring diagram 5

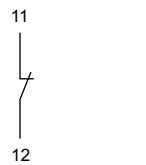
Switching element ring cable lug



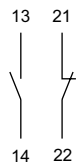
Dimensions [mm]

Switching voltage	Switching current	Switching system	Contacts	Contact material	Terminal	Part No.	Wiring diagram	Weight
 **Switching element for ring cable shoe**								
500 VAC	10 A	Snap-action switching element	1 NO	Silver	Screw	**704.900.1B**	3	0.021 kg
			1 NC	Silver	Screw	**704.900.2B**	1	0.021 kg
			2 NO	Silver	Screw	**704.900.3B**	5	0.028 kg
			2 NC	Silver	Screw	**704.900.4B**	4	0.028 kg
			1 NC + 1 NO	Silver	Screw	**704.900.5B**	2	0.028 kg
 **Switching element for ring cable shoe**								
500 VAC	10 A	Slow-make switching element	1 NO	Gold	Screw	**704.911.1B**	3	0.021 kg
			1 NC	Gold	Screw	**704.911.2B**	1	0.021 kg
			2 NO	Gold	Screw	**704.911.3B**	5	0.028 kg
			2 NC	Gold	Screw	**704.911.4B**	4	0.028 kg
			1 NC + 1 NO	Gold	Screw	**704.911.5B**	2	0.028 kg
			1 NO	Silver	Screw	**704.910.1B**	3	0.021 kg
			1 NC	Silver	Screw	**704.910.2B**	1	0.021 kg
			2 NO	Silver	Screw	**704.910.3B**	5	0.028 kg
			2 NC	Silver	Screw	**704.910.4B**	4	0.028 kg
			1 NC + 1 NO	Silver	Screw	**704.910.5B**	2	0.028 kg

Contacts: NC = Normally closed, NO = Normally open

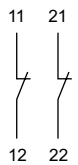


Wiring diagram 1



Wiring diagram 2

Wiring diagram 3



Wiring diagram 4

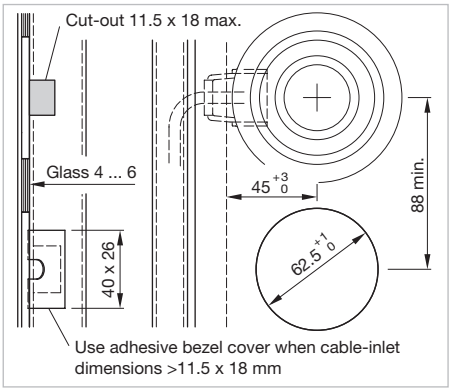
Wiring diagram 5

Mounting

Cable cover standard

Additional Information

- Additional cable covers are available on request



Mounting cut-outs [mm]

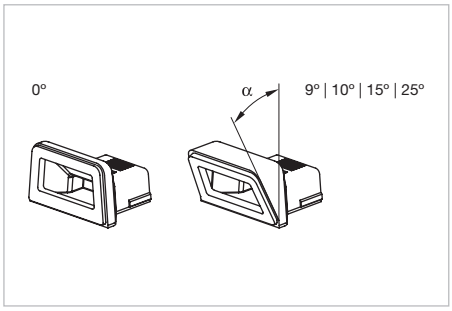
Product attribute	Cable cover	Part No.	Weight
 **Cable cover standard**			
included in standard delivery	standard 0°	**56-992**	0.003 kg
 **Cable cover standard**			
specify Part No. in purchase order	standard 45°	**56-992A**	0.005 kg

Cable cover funnel

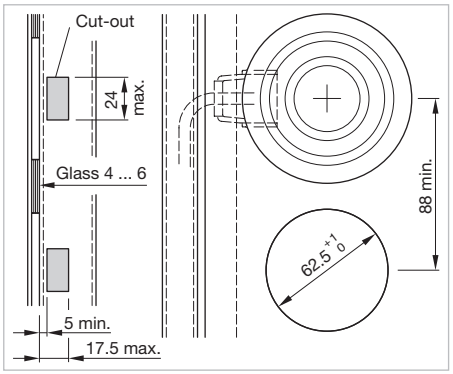
Additional Information

- 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]

Cable cover	Part No.	Weight
 **Cable cover funnel**		
funnel 0°	**56-992B**	0.01 kg
funnel 10°	**56-992C**	0.01 kg
funnel 15°	**56-992D**	0.01 kg
funnel 25°	**56-992E**	0.01 kg
Funnel 9°	**56-992F**	0.01 kg

Bezel cover

Product attribute	Dimension	Material	Colour	Mounting type	Part No.	Weight
 **Bezel cover**						
0.8 mm thick	40 x 26 mm	Aluminium	natural anodized	adhesive	**56-993**	0.005 kg

Mounting set for rear mounting

Additional Information

- For front panel thickness 2 mm and 3mm

Part No.	Weight
 **Mounting set for rear mounting**	
56-991	0.036 kg

56 Accessories

Dismantling tool

Additional Information

- For front bezel

Part No.	Weight
 **Dismantling tool**	
57-9901	0.012 kg

Anti-slip mat

Additional Information

- For dismounting of front bezel
- 3 mm dick

Dimension	Colour	Part No.	Weight
 **Anti-slip mat**			
100 x 100 mm	white	**56-999**	0.033 kg

Counterpart set for plug-in housing 2.8 x 0.8 mm

Additional Information

- (set of 10 pieces)

Part No.	Weight
 **Counterpart set for plug-in housing 2.8 x 0.8 mm**	
56-994	0.012 kg

Counterpart set for plug-in housing 6.3 x 0.8 mm

Additional Information

- (set of 10 pieces)

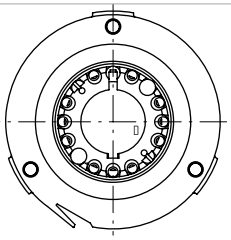
Part No.	Weight
	**Counterpart set for plug-in housing 6.3 x 0.8 mm**
56-995	0.012 kg

Sealing

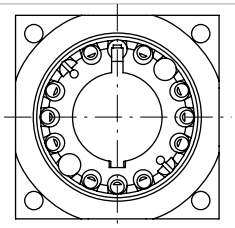
Part No.	Weight
	**Sealing black, glass mounting**
56-990	0.004 kg

56 Drawings

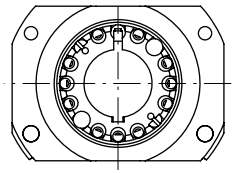
Drawings



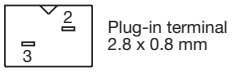
Housing D73 (Standard)



Housing 50x50 mm



Housing 68.5x50 mm



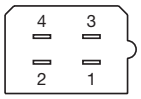
Plug-in terminal
2.8 x 0.8 mm

Standard type

Component layout 1

Plug-in terminal
2.8 x 0.8 mm

Standard type

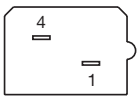


Plug-in terminal
6.3 x 0.8 mm

Component layout 2

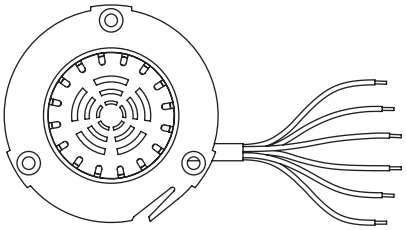
Plug-in terminal
2.8 x 0.8 mm

Standard type



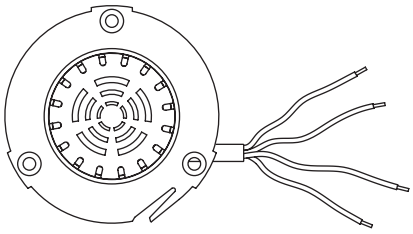
Plug-in terminal
6.3 x 0.8 mm

Component layout 3

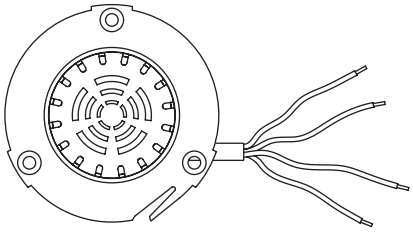


red	(Tone sequence 1)
blue	(Tone sequence 2)
yellow	(Tone sequence 3)
brown	(Tone sequence 4)
green	(Tone sequence 5)
white	(0 V)

Component layout 4



Component layout 5



Component layout 6

56 Technical data

Indicator

Material

Connection cable
Halogene free Polyolefine mixture

Lens
Polycarbonate (PC), as per UL94 V0

Front bezel
Zinc matt chromium plated or Polybutylenterephthalat (PBT), as per UL94 V0

Actuator
Polycarbonate (PC), as per UL94 V0

Mechanical characteristics

Terminals
Cable 2-poles with plug-in connection 2.8 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 with AMP connector 2.8 x 0.8 mm

Fixing screws
For front mounting M4 x 8 mm

Tightening torque
For screws for front mounting 80 Ncm … 100 Ncm
Key (mounting and dismantling)
Hexagon socket wrench size 2.5 mm

Electrical characteristics

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

Environmental conditions

Storage temperature
-45 °C … +90 °C

Operating temperature
-40 °C … +80 °C

Protection degree
Front side IP 67
Rear side IP 65

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
NFF

Declaration of conformity
CE

Multi-Tone Sound Module

Material

Connection cable
Halogene free Polyolefine mixture
Housing switching unit and speaker cap
Polycarbonate (PC), as per UL94 V0

Front bezel
Zinc matt chromium plated or Polybutylenterephthalat (PBT), as per UL94 V0

Housing
Tritan (Copolyeste)

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 80 Ncm … 100 Ncm
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.

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

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

Environmental conditions

Storage temperature
-45 °C … +90 °C

Operating temperature
-40 °C … +85 °C

Protection degree
3-/6-tone sequences module:
Front side IP 69K oder IP 40
Rear side IP 65

5-tone sequences module:
Front side IP 69K
Rear side IP 65

56 Technical data

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
E1
NFF

Declaration of conformity
CE
TSI/PRM

Pushbutton

Switching system

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

Material

Connection cable
Halogene free Polyolefine mixture

Lens
Aluminium anodized or Polybutylenterephthalat (PBT),
as per UL94 V0

Front bezel
Zinc matt chromium plated or Polybutylenterephthalat (PBT),
as per UL94 V0

Actuator
Polycarbonate (PC), as per UL94 V0

Material of contact
Gold plated silver

Mechanical characteristics

Terminals
Cable 4-poles with plug-in connection 2.8 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 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 with AMP connector 2.8 x 0.8 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
80 Ncm … 100 Ncm
Screws for single side- and double side pushbutton for
glass mounting 50 Ncm
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 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 61058-1, EN 61000-6-2, EN 61000-6-3, EN 50155

Switch rating
min. 5 VDC, 5 mA
max. 137 VDC/VAC, max. 200 mA

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

Environmental conditions

Storage temperature
-45 °C … +90 °C

Operating temperature
-40 °C … +80 °C

Protection degree
Front side IP 67
Back side IP 65

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
NFF

Declaration of conformity
CE
TSI/PRM

Flashing warning beacon

Material

Connection cable
Halogene free Polyolefine mixture

Lens
Polycarbonate (PC), as per UL94 V0

Front bezel
Zinc matt chromium plated or Polybutylenterephthalat (PBT), as per UL94 V0

Actuator
Polycarbonate (PC), as per UL94 V0

Mechanical characteristics

Terminals
Cable 2-poles with plug-in connection 2.8 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 with AMP connector 2.8 x 0.8 mm

Fixing screws
For front mounting M4 x 8 mm

Tightening torque
For screws for front mounting 80 Ncm … 100 Ncm
Key (mounting and dismantling)
Hexagon socket wrench size 2.5 mm

56 Technical data

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 IP 67
Rear side IP 65

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
NFF

Declaration of conformity
CE

EAO reserves the right to alter specifications without further notice.

Slow-make switching element

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. 3).

Material

Material of contact
Hardsilver, gold-silver, silver-palladium (for aggressive atmospheres)

Switch housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
Screw terminals
Plug-in terminals 6.3 x 0.8 mm
max. wire cross-section 2 x 2.5 mm²
max. wire cross-section of stranded cable 2 x 1.5 mm²
For switches with plug-in terminals it is necessary to provide insulation sleeves and to maintain a spacing of 65 mm between rows (mounting cut-outs)

Tightening torque
Screws at the mounting flange max. 25 – 30 Ncm
Screws at switching element max. 50 Ncm

Actuating force
1 Normally closed 2 N
1 Normally open 3.1 N

Actuating travel
5.8 mm ± 0.2 mm

Rebound time
≤ 1 ms

Mechanical lifetime
(with 1 switching element)

Pushbutton maintained action	1.5 million Cycles of operation
Pushbutton momentary action	3 million Cycles of operation
Selector switch maintained action	1.25 million Cycles of operation
Selector switch momentary action	2.5 million Cycles of operation
Emergency-stop switch	50 000 Cycles of operation
Keylock switch maintained action	25 000 Cycles of operation
Keylock switch momentary action	50 000 Cycles of operation

Electrical characteristics

Standards
The switches comply with the “Standards for low-voltage switching devices” EN IEC 60947-5-1

Rated Insulation Voltage U_i
500 VAC/600 VDC, as per EN IEC 60947-5-1

Contact resistance
New state ≤ 50 mΩ as per DIN IEC 60512-2-4

Isolation resistance
≥ 10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-3-1

Electrical life
6050 cycles of operations

Conventional free air thermal current I_{th}
As per EN IEC 60947-5-1
6 A for plug-in terminals
10 A for screw terminals
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
At switch rating AC for gold-silver, silver-palladium and hardsilver contacts, service category AC-15, as per EN IEC 60947-5-1 (cosφ 0.3)

Voltage	230 VAC	400 VAC	500 VAC
Current	7 A	5 A	4 A

At switch rating DC for gold-silver and hardsilver contacts, service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	60 VDC	110 VDC	250 VDC
Current	10 A	5 A	2.5 A	0.6 A

Recommended minimum operational data
Gold-silver contacts:

Voltage	24 VDC	110 VDC
Current	10 mA	2 mA

Hardsilver 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

56 Technical data

Environmental conditions

Storage temperature
-40 °C … +85 °C

Operating temperature
-25 °C … +55 °C

Protection degree
IP 00

Shock resistance
(single impacts, semi-sinusoidal)
300 m/s² puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
100 m/s² at 10 Hz … 500 Hz, amplitude 0.75 mm, as per EN IEC 60068-2-6

Approvals

Approbations
CB (IEC 60947)
CCC
CSA
Germanischer Lloyd
GOST
NFF 16-102
UL

Declaration of conformity
CE

Snap-action switching element

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!

Material

Material of contact
Hardsilver, gold-silver, silver-palladium (for aggressive atmospheres)

Switch housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
Screw terminals
Plug-in terminals 6.3 x 0.8 mm
max. wire cross-section 2 x 2.5 mm²
max. wire cross-section of stranded cable 2 x 1.5 mm²
For switches with plug-in terminals it is necessary to provide insulation sleeves and to maintain a spacing of 65 mm between rows (mounting cut-outs)

Tightening torque
Screws at the mounting flange max. 25 – 30 Ncm
Screws at switching element max. 50 Ncm

Actuating force
1 Normally closed 1.9 N
1 Normally open 2 N

Actuating travel
5.8 mm ± 0.2 mm

Rebound time
≤ 3 ms

Mechanical lifetime
(with 1 switching element)

Pushbutton maintained action	1.5 million Cycles of operation
Pushbutton momentary action	3 million Cycles of operation
Selector switch maintained action	1.25 million Cycles of operation
Selector switch momentary action	2.5 million Cycles of operation
Keylock switch maintained action	25 000 Cycles of operation
Keylock switch momentary action	50 000 Cycles of operation

Electrical characteristics

Standards
The switches comply with the “Standards for low-voltage switching devices” EN IEC 60947-5-1

Rated Insulation Voltage U_i
500 VAC/600 VDC, as per EN IEC 60947-5-1

Contact resistance
New state ≤ 50 mΩ as per DIN IEC 60512-2-4

Isolation resistance
≥ 10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-3-1

Electrical life
50 000 cycles of operations

Conventional free air thermal current I_{th}
As per EN IEC 60947-5-1
6 A for plug-in terminals
10 A for screw terminals
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
At switch rating AC for gold-silver, silver-palladium and hardsilver contacts, service category AC-15, as per EN IEC 60947-5-1 (cosφ 0.3)

Voltage	230 VAC	400 VAC	500 VAC
Current	6 A	4 A	2.5 A

At switch rating DC for gold-silver and hardsilver contacts, service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	60 VDC	110 VDC
Current	10 A	3 A	1 A

Recommended minimum operational data
Gold-silver contacts:

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

Hardsilver 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

Environmental conditions

Storage temperature
-40 °C … +85 °C

Operating temperature
-25 °C … +55 °C

Protection degree
IP 00

Shock resistance
(single impacts, semi-sinusoidal)
300 m/s² puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
100 m/s² at 10 Hz … 500 Hz, amplitude 0.75 mm, as per EN IEC 60068-2-6

Approvals

Approbations
CB (IEC 60947)
CCC
CSA
Germanischer Lloyd
GOST
NFF 16-102
UL

Declaration of conformity
CE

Slow-make switching element PIT

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. 3).

Material

Material of contact
Hardsilver and gold-silver

Switch housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
PIT push-in terminal
Skinning 8 mm
Wire cross-section:
Wire 0.2 to 1.0 mm²
Stranded wire 0.2 to 1.0 mm² without core and sleeve
Stranded wire 0.2 to 0.75 mm² with core and sleeve

Tightening torque
Screws at the mounting flange max. 25 Ncm

Actuating force
1 Normally closed 2 N
1 Normally open 3.1 N

Actuating travel
5.8 mm ± 0.2 mm

Rebound time
≤ 1 ms

Mechanical lifetime
(with 1 switching element)

Pushbutton maintained action	1.5 million Cycles of operation
Pushbutton momentary action	3 million Cycles of operation
Selector switch maintained action	1.25 million Cycles of operation
Selector switch momentary action	2.5 million Cycles of operation
Emergency-stop switch	50 000 Cycles of operation
Keylock switch maintained action	25 000 Cycles of operation
Keylock switch momentary action	50 000 Cycles of operation

Electrical characteristics

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

Rated Insulation Voltage U_i
500 VAC/600 VDC, as per EN IEC 60947-5-1

Contact resistance
New state ≤ 50 mΩ as per DIN IEC 60512-2-4

Isolation resistance
≥ 10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-3-1

Electrical life
6050 cycles of operations

Conventional free air thermal current I_{th}
6 A, as per EN IEC 60947-5-1
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
At switch rating AC for gold-silver and hardsilver contacts, service category AC-15, as per EN IEC 60947-5-1 (cosφ 0.3)

Voltage	250 VAC
Current	6 A

At switch rating DC for gold-silver and hardsilver contacts, service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	110 VDC
Current	6 A	1.0 A

Recommended minimum operational data
Gold-silver contacts:

Voltage	24 VDC
Current	5 mA

Hardsilver contacts:

Voltage	24 VDC
Current	50 mA

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

Environmental conditions

Storage temperature
-40 °C … +85 °C

Operating temperature
-25 °C … +55 °C

Protection degree
IP 20

Shock resistance
(single impacts, semi-sinusoidal)
300 m/s² puls width 11 ms, as per EN IEC 60068-2-27

Approvals

Approbations
CB (IEC 60947)
CSA
Germanischer Lloyd
GOST
NFF 16-102
UL

Declaration of conformity
CE

Snap-action switching element PIT

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

Material of contact
Hardsilver and gold-silver

Switch housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
PIT push-in terminal
Skinning 8 mm
Wire cross-section:
Wire 0.2 to 1.0 mm²
Stranded wire 0.2 to 1.0 mm² without core and sleeve
Stranded wire 0.2 to 0.75 mm² with core and sleeve

Tightening torque
Screws at the mounting flange max. 25 Ncm

Actuating force
1 Normally closed 1.9 N
1 Normally open 2 N

Actuating travel
5.8 mm ± 0.2 mm

Rebound time
≤ 3 ms

Mechanical lifetime
(with 1 switching element)

Pushbutton maintained action	1.5 million Cycles of operation
Pushbutton momentary action	3 million Cycles of operation
Selector switch maintained action	1.25 million Cycles of operation
Selector switch momentary action	2.5 million Cycles of operation
Emergency-stop switch	50 000 Cycles of operation
Keylock switch maintained action	25 000 Cycles of operation
Keylock switch momentary action	50 000 Cycles of operation

Electrical characteristics

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

Rated Insulation Voltage U_i
500 VAC/600 VDC, as per EN IEC 60947-5-1

Contact resistance
New state ≤ 50 mΩ as per DIN IEC 60512-2-4

Isolation resistance
≥ 10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-3-1

Electrical life
50 000 cycles of operations

Conventional free air thermal current I_{th}
6 A, as per EN IEC 60947-5-1
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
At switch rating AC for gold-silver and hardsilver contacts, service category AC-15, as per EN IEC 60947-5-1 (cosφ 0.3)

Voltage	250 VAC
Current	6 A

At switch rating DC for gold-silver and hardsilver contacts, service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	110 VDC
Current	6 A	1.0 A

Recommended minimum operational data
Gold-silver contacts:
Voltage 24 VDC
Current 5 mA

Hardsilver contacts:
Voltage 24 VDC
Current 50 mA

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

Environmental conditions

Storage temperature
-40 °C … +85 °C

Operating temperature
-25 °C … +55 °C

Protection degree
IP 20

Shock resistance
(single impacts, semi-sinusoidal)
300 m/s² puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
100 m/s² at 10 Hz … 500 Hz, as per EN IEC 60068-2-6 and EN 61373 Increased broad band noise, class 1B

Approvals

Approbations
CB (IEC 60947)
CSA
Germanischer Lloyd
GOST
NFF 16-102
UL

Declaration of conformity
CE

Suppressor circuits

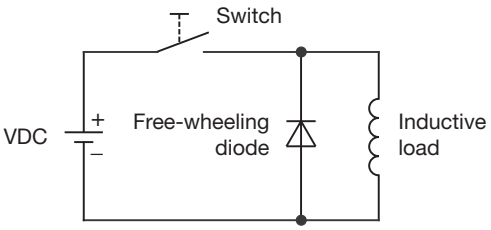
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e. g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

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

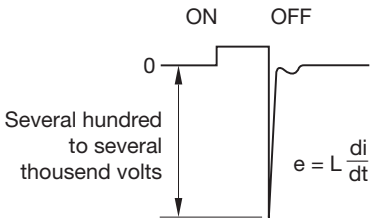
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current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

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

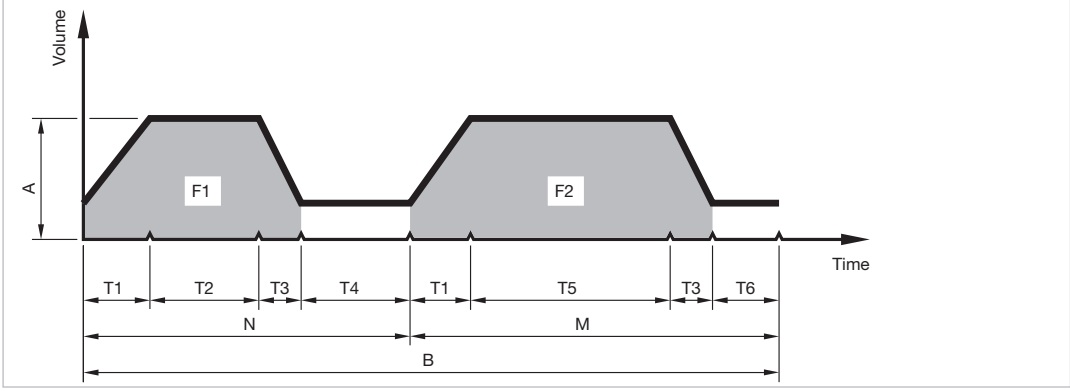
Switching with inductive load
Fig. 1



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



Multi-Tone Sound Module, standard tone sequence



Diagram

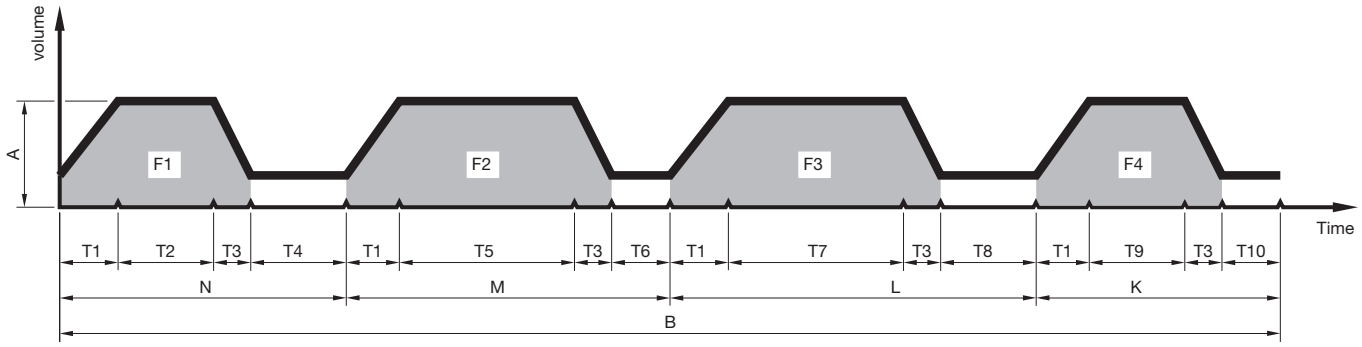
F1	Frequency 1 of a tone sequence
T2	Playing time tone 1
T4	Break
N	Number of repetitions of tone 1
F2	Frequency 2 of a tone sequence
T5	Playing time tone 2
T6	Break
M	Number of repetitions of tone 2
A	Volume level (±8 dB) @ 10 cm
B	Number of repetitions of the complete tone sequence, or blockage of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

Tone sequences 1-5 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 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 Hz
	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 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

Multi-Ton Sound Modul, self adjusting, standard Tone sequence



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
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
B	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

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) @ 1.5 m	48 dB (A) @ 1.5 m	–	–	–	–
	D	+2 db	+2 db	–	–	–	–
	B	∞	∞	–	–	–	–
	T1	0 ms	0 ms	–	–	–	–
	T3	0 ms	0 ms	–	–	–	–

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