Stack lights – Overview Elements

AS-Interface module plus signalling elements

Connection element

Fixing element

Indication elements

Continuous light elements

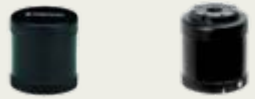
VAZ-LED-70MM-RD	#196233	VAZ-LAMP-70MM-RD	#216076
VAZ-LED-70MM-YE	#196234	VAZ-LAMP-70MM-YE	#216078
VAZ-LED-70MM-GN	#196235	VAZ-LAMP-70MM-GN	#216077
VAZ-LED-70MM-BU	#196236	VAZ-LAMP-70MM-BU	#216080
VAZ-LED-70MM-CL	#196237	VAZ-LAMP-70MM-CL	#216079

LED flashing elements

VAZ-FLASH-70MM-RD	#205223
VAZ-FLASH-70MM-YE	#205224

Buzzer- and Siren elements

(Top cover can not be removed → install at top)



VAZ-HORN-70MM-85DBA	#196238
VAZ-HORN-70MM-105DBA	#205225
VAZ-HORN-70MM-0…100DBA-8TONE	#221647

AS-Interface element

AS-Interface-Element

VAA-4A-70MM #196232

- Standard-Slave (No A/B addressing)
- Module acc. to Spec. V2.0 (Profil S-8.F)
- requires Master ≥ V2.0
- I_e ≤ 210mA
- I_{max} from ASi ≤ 200mA (in total)
- I_{AUX} ≤ max. 300mA (per Element)
- Programming socket inside the housing
- Change over switch for AUX supply inside the housing (Standard: AUX → AUS)

AS-Interface module is not mandatory!

Replacement bulb

VAZ-LAMP-70MM-BULB-5W/24V #216081

Connecting element

Straight and 90° mounting

(with sealing)

VAZ-CLAMP-70MM-90° #197120

Direct mounting on a plate possible!

Mounting element

Right Angled

(with 2 seals and 2 screws)

VAZ-MH90°-70MM #1962430

Connecting element

Conduit mounting

(with screw inside housing)

VAZ-CLAMP-70MM #196239

Mounting element

Base with 100 mm rod

(with sealing)

VAZ-MH100-70MM #196240

Base for conduit mounting

(with sealing and screws)

VAZ-TUBE-BASE-70MM #201594
VAZ-TUBE400-70MM #201593

Adapter

Ø25mm → ½ inch

VAZ-MH-1/2"Conduit-70MM #202641

Adapter from Ø25mm → ½ inch VAZ-MH-1/2" Conduit-70MM #202641

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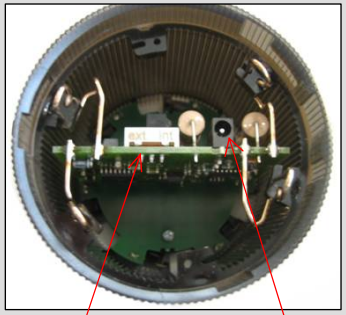
Stack lights – Elements + Signals

AS-Interface Element



Sliding switch to activate auxiliary power supply (AUX)
Default: supply from AS-Interface

Programming socket

Data bits	Input	Putput
D0	-	OUT1
D1	-	OUT2
D2	-	OUT3
D3	-	OUT4

Parameterbit	Funktion
P0	monitoring of communication P0 = 0 monitoring off, All outputs stay in the condition when an error will occur P0 = 1 monitoring on (default), in case of a malfunction all outputs will be off (no current)
P1	Not used
P2	Not used
P3	Not used

Buzzer element 85dBA

Adjust tonality with wire jumper:
closed: permanent (default)
opened: pulsing

Siren element 105dBA:
Alternating permanent tone → no further option for adjustments

Tipp:

15 dB above ambient noise level but minimum 65 dB

Recommendation on the use of optical and acoustic signals

Optical signals		Audible signals	
Colour	**meaning**	**Signal tone**	**meaning**
red 	**Extreme danger, hazardous conditions**	**Multi-tone:** Scale in differing frequencies (various high / low frequencies) with regular, cyclical intervals	**Extreme danger, immediate action**
yellow 	**Beware, dangerous conditions imminent**	**Two-tone:** Scale in different frequencies (one high, one low frequency) with regular, cyclical intervals	**Extreme danger, immediate action**
green 	**Normal conditions**	**Alternating tone:** Continuous tone with graduated decrease and increase of sound frequencies	**Danger, immediate action**
blue 	**Conditions requiring defined operation**	**Pulse tone:** Regular intervals between on and off cycle	**Danger, immediate action**
clear 	**No particular meaning**	**Continuous tone:** continuous tone in specific frequency	**Safety**

Source: Catalogue WERMA Signaltechnik

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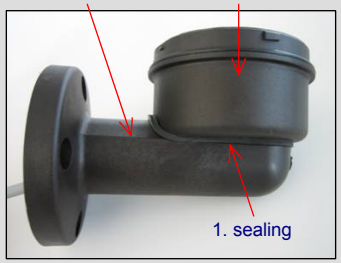
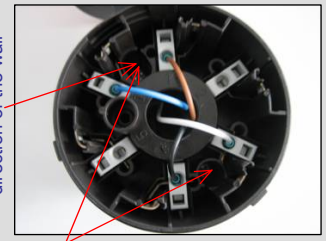
Stack lights – Mounting + Connection

Mounting of 90° base

VAZ-MH90°-70MM VAZ-CLAMP-70MM-90°





Raised head, sheet metal screws, cross slot (M3,5 x 13mm)

Conduit mounting

Sheet metal screw M3,5 x 13mm (to fix conduit)

VAZ-CLAMP-70MM

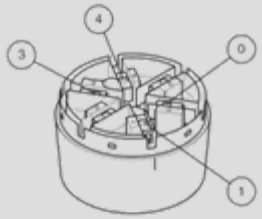
Mounting holes to fix base, max. M5

Calotte mounting

Position mark of both calottes. Stick them together and turn left

Wiring of connecting element

with AS-Interface element



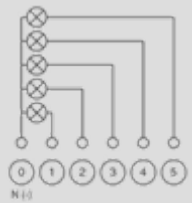
Always connected:

clamp 0 → – AS-Interface
clamp 1 → + AS-Interface

If AUX is set active:

clamp 3 → $-U_{AUX}$
clamp 4 → $+U_{AUX}$

without AS-Interface element

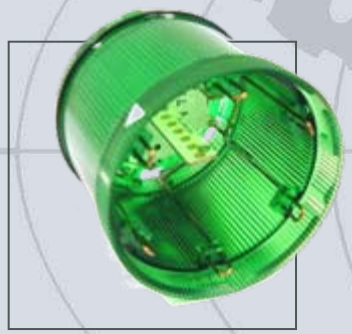


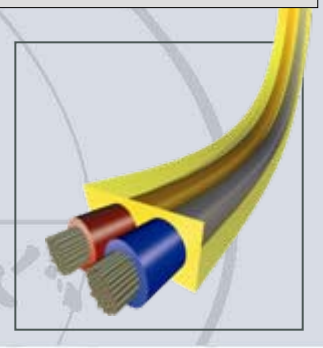
clamp 0 → common ground
clamp 1…5 → +24V for each individual element

Cage clamp connection

Screwdriver

- Push screwdriver into the cage clamp
- Insert leads
- Remove screwdriver





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