



Stacklights

- Fast mounting of signal elements using bayonet fixing
- Easy changing of bulbs for each module without tools
- Up to 10 light elements possible with 2-sided mounting bracket
- Flexibility of signal element combination
- Flashing light elements can be mounted in each module
- Up to 5 flashing light elements possible
- High protection rating optical and audible signal elements with IP 54, UL Type 2, 5
- · LED elements for long life

Signal beacons

- · Rugged construction
- High protection rating IP 65, UL Type 2, 5, NEMA 4X
- Cap consists of high impact polycarbonate (up to 15 sq. ft.).
- Bulb change via inside of control box
- · Available with LED bulbs.



Simple mounting with quick fix system

Each module is equipped with bayonet mounting with an integral contact system. The modules are fastened together by aligning the corresponding white marks; with a gentle twist, they are locked into place.

Low Voltage Products & Systems 8.101

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Stacklights

Optical modules

Selection



KL70-401G



KL70-302R



Light element

Voltage range	Catalog number	List price
Permanent light, 12 – 240VAC/DC (Bulb not included)		
Red	KL70-401R	
Green	KL70-401G	
Yellow	KL70-401Y	\$ 36
Blue	KL70-401L	, ,
Clear	KL70-401C	
Flashing light, 24VAC/DC (Bulb not included)		
Red	KL70-302R	
Green	KL70-302G	
Yellow	KL70-302Y	100
Blue	KL70-302L	
Clear	KL70-302C	
Strobe light, 24VDC		
Red	KL70-203R	
Green	KL70-203G	
Yellow	KL70-203Y	165
Blue	KL70-203L	
Clear	KL70-203C	
Flashing light, 115VAC/DC (Bulb not included)		
Red	KL70-312R	
Green	KL70-312G	
Yellow	KL70-312Y	100
Blue	KL70-312L	
Clear	KL70-312C	
Strobe light, 115VAC		
Red	KL70-113R	
Green	KL70-113G	
Yellow	KL70-113Y	155
Blue	KL70-113L	
Clear	KL70-113C	
Flashing light, 230VAC/DC (Bulb not included)	1/1 70 000D	
Red	KL70-322R	
Green	KL70-322G	
Yellow	KL70-322Y	100
Blue	KL70-322L	
Clear	KL70-322C	
Strobe light, 230 VAC	KI 70 400D	
Red	KL70-123R	
Green	KL70-123G	455
Yellow	KL70-123Y	155
Blue	KL70-123L	
Clear	KL70-123C	
LED permanent light, 24VAC/DC	KI 70 205D	
Red	KL70-305R	425
Green	KL70-305G	135
Yellow	KL70-305Y	
LED flashing light, 24VAC/DC Red	KL70-306R	
		140
Green Yellow	KL70-306G KL70-306Y	140
LED rotating light, 24VAC/DC	11270 0001	
Red	KL70-307R	
Green	KL70-307G	140
Yellow	KL70-307Y	1.70

Bulbs for stacklight K70 (7W max)

Voltage	Catalog	List
range	number	price
Bulb BA15d, 42 _{mm} 24V, 5W 115V, 5W 230V, 5W	KLB24 KLB1 KLB2	\$ 8

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Stacklights Accessories









Audible modules Voltage range	Catalog number	List price
Buzzer element: continuous pulse tone, 85dB 230VAC 24VAC/DC 115VAC/DC	KB70-1201 KB70-3001 KB70-3101	\$ 115 95 115
Siren element: 8 different tones adjustable volume, 100dB 24VAC/DC 115VAC/DC 230VAC/DC	KS70-3004 KS70-1104 KS70-1204	145 155 155
Siren element: continuous tone, 108dB 24VDC	KS70-2002	100
Siren element: 7 different tones adjustable volume, 100dB 24VDC	KS70-2004	145

Terminal elements ^①

Voltage	Catalog	List
range	number	price
3	KT70-1001 KT70-1002	\$ 40

Special parts

Spoolar parts		
	Catalog	List
ltem	number	price
Contact box		
Cable exit at side	KA70-1001	\$ 23
Magnetic base	KA70-1002	65
Base with tube		
D=25mm L=110mm	KA70-1011	33
Base for tube		
D= 25 _{mm} , plastic	KA70-1012	15
D= 25 _{mm} , metal	KA70-1013	32
Tube		
D= 25mm L=250mm	KA70-1021	20
D= 25mm L=400mm	KA70-1022	27
Bracket		
1-sided mounting	KA70-1031	20
2-sided mounting	KA70-1032	

AS-Interface module

Voltage	Catalog	List
range	number	price
18.5 – 31.6 VAC/DC 18.5 – 31.6 VAC/DC (for external voltages)	KASI-4101 KASI-4102	\$ 300

 $\ensuremath{\textcircled{1}}$ Each signal tower assembly must contain a terminal element.

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KT70-1002

KA70-1001

KA70-1032 KA70-1011 KA70-1013 KA70-1012 KA70-1001

KA70-1001

KT70-1001

KA70-1002



Signal beacons Selection



Light element

Voltage range	Catalog number	List price
Permanent light, 12 – 240VAC/DC (Bulb not included) Red Green Yellow Blue Clear	KSB-401R KSB-401G KSB-401Y KSB-401L KSB-401C	\$ 55.00
Strobe light, 24VDC Red Green Yellow Blue Clear	KSB-203R KSB-203G KSB-203Y KSB-203L KSB-203C	180.00
Strobe light, 115 VAC Red Green Yellow Blue Clear	KSB-113R KSB-113G KSB-113Y KSB-113L KSB-113C	155.00
Strobe light, 230 VAC Red Green Yellow Blue Clear	KSB-123R KSB-123G KSB-123Y KSB-123L KSB-123C	155.00
LED Permanent light, 24 VAC/DC Red Green Yellow	KSB-305R KSB-305G KSB-305Y	190.00
LED Flashing light, 24 VAC/DC Red Green Yellow	KSB-306R KSB-306G KSB-306Y	195.00
LED Rotating light, 24 VAC/DC Red Green Yellow	KSB-307R KSB-307G KSB-307Y	195.00

Bulbs for signal beacons (10W max)

Voltage range	Catalog number	List price
Bulb BA15d, 52 _{mm} 12V, 7W 24V, 7W 115V, 7W 230V, 7W	KSBB12 KSBB24 KSBB1 KSBB2	\$ 8.00

8.104 Discount schedule CD Low Voltage Products & Systems

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Technical data



Stacklights

Construction materials

- Lenses transparent polycarbonate
- · Terminal elements high impact black polyamide
- Bulbs

BA 15d, max. 42mm, max 5W KLB24, 24V, 208mA KLB1, 115V, 45mA KLB2, 230V, 22mA

Terminal element

Connecting element with sealing cover for tube mounting or surface mounting

• Permanent light KL70-401★ - 12-240 VAC/VDC

• Blinking light

KL70-302 - 24VAC/VDC, 100mA KL70-312 - 115VAC/VDC, 20mA KL70-322 - 230VAC/VDC, 10mA

• Flashing light

KL70-203 - 24VDC/125mA KL70-113 - 115VAC/20mA KL70-123 - 230VAC/15mA

 LED Permanent light KL70-305 - 24VAC/VDC, 60mA

• LED Blinking light KL70-306 - 24VAC/VDC, 40mA

 LED Rotating light KL70-307 - 24VAC/VDC, 70mA

• Buzzer element

KB70-3001 - 85db, 24VAC/VDC, 25mA KB70-3101 - 85db, 115VAC/VDC, 25mA KB70-1201 - 85db, 230VAC, 25mA

Siren element

K\$70-2002 - 108db, 24VDC, 100mA K\$70-3004 - 100db, 24VAC/VDC, 80mA K\$70-1104 - 100db, 115VAC, 40mA K\$70-1204 - 100db, 230VAC, 40mA K\$70-2004 - 100db, 24VDC, 80mA

Cleaning

Clean the product from the outside with a light, non-scouring cleaning agent. Never use abrasive or diluting agents and never use benzine.

Signal beacons

Features

- Vandal-proof construction withstands every mechanical and natural challenge both indoors and outdoors
- High protection rating IP65
- · Cap consists of high impact polycarbonate (up to 20J).
- Bulb change can be accomplished in seconds through lamp holder with bayonet

Function

Signal beacons produce visible (blinking, flashing or permanent light) or audible signals (buzzer, siren) via electrical signals. Signal beacons are approved according to EN 60598 / VDE 0711 T1.

Safety instructions

- Wiring must be installed by a qualified electrician.
- Turn off the power supply before connecting the signal beacon
- Only operate signal beacons when completely assembled.
- Observe the correct nominal voltage.
- The volume of signal element can cause damage to hearing when used at close quarters

Technical specifications

- Dimensions: 68mm x 96.5mm (diameter x height)
- Housing: PC/ABS-blend, high impact, black
- Cap: Polycarbonate, transparent; shock resistance 20J according to EN 50014
- Mounting: Drilled hole Ø 37mm (PG 29)
- Terminal: Screw, M3; Pull relief; Flex radial or axial laid; Contact voltage proof according to VDE

Permanent light

- Operating voltage: 12 240V
- Bulb socket: B15d, 10 W max.
- Bulb change: Bayonet
- Current consumption: depends on bulb (bulb not included with assembly)
- Starting current: depends on bulb (bulb not included with assembly)

LED Model

- Permanent light: 24 VAC/VDC; 115VAC; 230VAC
- Blinking light: 24 VAC/VDC; blink frequency ca. 1 Hz
- Rotating light: 24 VAC/VDC; rotation frequency ca. 120 U/min
- Current consumption:

24VDC: Permanent light, 60mA; Blinking light, 40mA; Rotating light, 70mA

115VAC: 30mA 230VAC: 30mA

Starting current: <500mA

Flashing light

- Flash frequency: ca. 1 Hz
- Flash energy: 2W
- Operating voltage: 12VDC, 24VDC, 115VAC, 230VAC

 Current consumption: 12VDC: 200mA 24VDC: 125mA 115VAC: 20mA 230VAC: 15mA

 Starting current 24VDC: <0.5A 115VAC: <0.5A 230VAC: <0.25A

Bulbs

- 12V, 7W
- 24V, 7W • 115V, 7W
- 115V, 7W230V, 7W

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Pilot Devices

Stacklights

Stacklights

Signal Beacons

Technical data

Signal tower with AS-interface element

Description

Signal towers KombiSIGN 50 and 70 with AS-interface element are capable of total communication: By simple integration of an AS-interface element, the actuators are connected to the networking system actuator-sensor interface; this considerably reduces complex wiring. This element is to be mounted as the lowermost element in the signal tower just like a light element.

Technical specifications

AS-Interface element	AS-Interface element with additional external voltage
KS70: 67mm x 67mm	KS50: 52mm x 67mm
4	4
Flashing light element LED element Buzzer element Siren element (The total consumption of the single elements must not exceed 200 mA)	Permanent light element Flashing light element ① LED element Buzzer element Siren element ①
8 F	8 F
through bus conduction	through bus conduction
18.5V – 31.6V	18.5V – 31.6V
210mA	75mA ① / 50mA ②
integrated	integrated
integrated	integrated
4, electronic	4, relays
through bus conduction	additional external 10V – 120V = ① voltage: 10V – 30V = ② 10V – 230V ~
200mA	1.5A
integrated	fuse M 1.6A
-20° – +50°C	-20°C – +50°C
IP 54	IP 54
	KS70: 67mm x 67mm 4 Flashing light element LED element Buzzer element Siren element (The total consumption of the single elements must not exceed 200 mA) 8 F through bus conduction 18.5V – 31.6V 210mA integrated integrated 4, electronic through bus conduction

¹ Valid for KombiSIGN 702 Valid for KombiSIGN 50

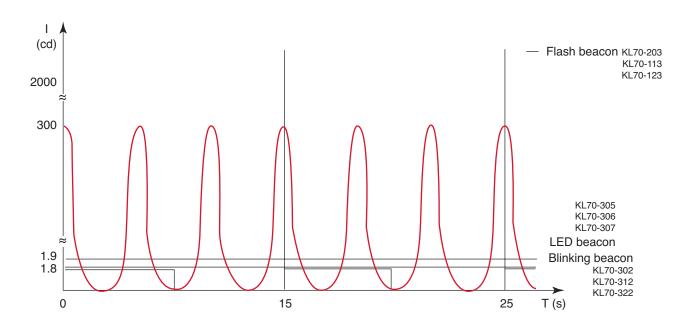
Technical data Signal beacons & stacklights



Light intensity of LED

Details pertaining to beacons with LED are based on a standing from December, 1999. Component-related improvements are continually developing; please inquire as to the current light intensity should the need arise.

Light intensity of beacons with bulbsLight intensity pertains to the bulbs used by ABB; the use of other bulbs may lead to discrepancies.



Optical signals

Signal tone	Meaning
Red	Extreme danger hazardous conditions
Yellow	Beware / dangerous conditions imminent
Green	Normal conditions
Blue	Conditions requiring defined action
White / Clear	No particular meaning

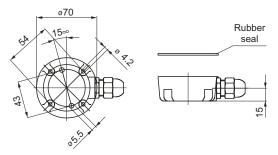
Audible signals

Signal tone	Meaning
Multi-tone Scale in differing frequencies (various high/low frequencies) with regular, cyclical intervals	Extreme danger Immediate action
Two-tone Scale in differing frequencies (one high, one low frequency) with regular, cyclical intervals	Extreme danger Immediate action
Modulated tone Permanent tone with graduated decrease and increase of sound frequencies	Danger Immediate action
Intermittent tone Regular intervals between on and off-cycle	Danger Immediate action
Linear tone Permanent tone in specific frequency	Safety

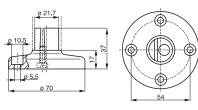
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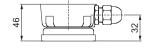
Contact box for cable exit at side



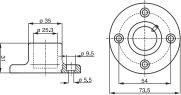
Base for tube, plastic



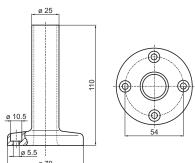
Contact box with magnetic base

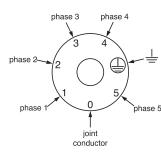


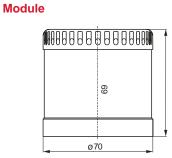
Base for tube, metal

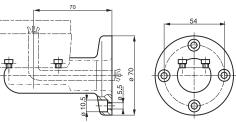


Base with integrated tube

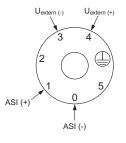






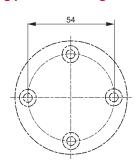


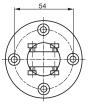
Connection plan with AS Interface module



Drilling plan for stacklights

Ø70





① All dimensions in millimeters.

Connection plan



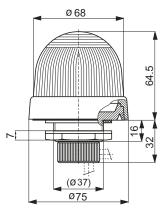
Bracket 2-sided mounting

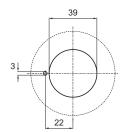
Approximate dimensions • Signal beacons



Signal beacons

Drilling plan for signal beacons





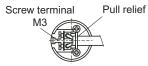


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