KS 71 Optical Elements Specifications

Optical Elements Technical Specifications											
Part Number	Color	Drawing Link	Description	Voltage	Current	Starting Current	Operating Temp/ Protection	Life Duration	Flash Frequency	Housing Material	Weight g [oz]
64110000	Red	PDF	Incandescent Permanent Light Element with B15d Bayonet Socket	12-240 V Depends on bulb selection. (bulb sold separately)	Depends on bulb selection. (bulb sold separately)	–	-20 to 60°C [-4 to 140°F] IP65	up to 5,000h	–	Polycarbonate	55 [1.94]
64120000	Green	PDF									
64130000	Yellow	PDF									
64140000	Clear	PDF									
64150000	Blue	PDF									
64410075	Red	PDF	LED Permanent Light Element	24V AC/DC	max. 30mA	max. 500mA	-20 to 50°C [-4 to 122°F] IP65	up to 100,000h	–	Polycarbonate	58 [2.05]
64420075	Green	PDF			max. 25mA						
64430075	Yellow	PDF			max. 30mA						
64440075	Clear	PDF			max. 25mA						
64450075	Blue	PDF			max. 25mA						
64445055	Multi	PDF		24VDC	max. 120mA			up to 50,000h			63 [2.22]
64410067	Red	PDF		115VAC	max. 20mA	–	-20 to 50°C [-4 to 122°F] IP65	up to 100,000h	–	Polycarbonate	58 [2.05]
64420067	Green	PDF									
64430067	Yellow	PDF									
64440067	Clear	PDF									
64450067	Blue	PDF									
64412055	Red	PDF	LED Flashing Light Element	24VDC	35mA	max. 500mA	-20 to 50°C [-4 to 122°F] IP65	up to 50,000h	1Hz on for 2x10 ms	Polycarbonate	75 [2.65]
64422055	Green	PDF									
64432055	Yellow	PDF									
64442055	Clear	PDF									
64452055	Blue	PDF									
64310055	Red	PDF	Xenon Flashing Light Element	24VDC	125mA	max. 500mA	-20 to 50°C [-4 to 122°F] IP65	up to 4,000,000 flashes	1Hz on for 10 ms	Polycarbonate	73 [2.57]
64320055	Green	PDF									
64330055	Yellow	PDF									
64340055	Clear	PDF									
64350055	Blue	PDF									
64310067	Red	PDF		115VAC	22mA	–	-20 to 50°C [-4 to 122°F] IP65	up to 4,000,000 flashes	1Hz on for 10 ms	Polycarbonate	74 [2.61]
64320067	Green	PDF									
64330067	Yellow	PDF									
64340067	Clear	PDF									
64350067	Blue	PDF									
64411075	Red	PDF	LED Blinking Light Element	24V AC/DC	max. 30mA	max. 500mA	-20 to 50°C [-4 to 122°F] IP65	up to 100,000h	1Hz on for 550 ms	Polycarbonate	58 [2.05]
64421075	Green	PDF			max. 25mA						
64431075	Yellow	PDF			max. 30mA						
64441075	Clear	PDF			max. 25mA						
64451075	Blue	PDF			max. 25mA						
64411067	Red	PDF		115VAC	max. 20mA	–	-20 to 50°C [-4 to 122°F] IP65	up to 100,000h	1Hz on for 550 ms	Polycarbonate	58 [2.05]
64421067	Green	PDF									
64431067	Yellow	PDF									
64441067	Clear	PDF									
64451067	Blue	PDF									
64413075	Red	PDF	LED Rotating Light Element	24V AC/DC	max. 40mA	max. 500mA	-20 to 50°C [-4 to 122°F] IP65	up to 100,000h	120 rotations per minute	Polycarbonate	67 [2.36]
64423075	Green	PDF									
64433075	Yellow	PDF									
64443075	Clear	PDF									
64453075	Blue	PDF									

64445055

7 colors in one beacon: red, yellow, blue, green, turquoise, violet, and white.

Terminal Pin Activation of Multi-Color LED Permanent Light Element			
Pin 1	Pin 2	Pin 3	Function
24V	–	–	Red
–	24V	–	Green
24V	24V	–	Yellow
–	–	24V	Blue
24V	24V	24V	White
24V	–	24V	Violet
–	24V	24V	Turquoise

Bulbs for Incandescent Permanent Optical Element				
Part Number	Description	Wattage	Voltage	Life Duration
95584035	Bulb for incandescent light BA15d Bayonet Socket	5W	24VDC	up to 5,000h
95584038			230VAC	
95584057			115VAC	

KS 71 Audible Elements Specifications

KS 71 Audible Elements Specifications

Part Number	64580075	64580077	64585055
Price			
Drawing Link	PDF	PDF	PDF
Description	Buzzer Element		Multi-functional Siren
Voltage	24V AC/DC	115VAC	24VDC
Current Consumption	≤ 25mA		≤ 80mA
Tone Frequency	1.7 kHz		1.6 to 3.4 kHz
Maximum Volume	85dB		100dB
Tone Type	Continuous/Pulse Selectable		Up to 7 tones externally triggered
Life Duration	> 5000h		
Operating Temperature	-4 to 122˚F [-20 to 50˚C]		
Weight	74g [2.61 oz]	82g [2.89 oz]	77g [2.72 oz]
Housing Material	Polycarbonate		ABS, Polycarbonate

Note: Refer to insert for wiring diagram.
Number of tones available are limited by number of elements in stack.

Siren element with self-adjusting sound output

- Automatic sound output adjustment between 80 and100 dB
- Continual measurement of the ambient noise level
- Sound output is about 5 dB louder than the background noise level
- Ideal for applications with changing ambient sound levels

KS 71 Self-Adjusting Siren Element

| Part Number	Price	Drawing Link	Technical Specifications	
64581055		PDF	Housing	Polycarbonate
			Tone type	Pulse tone
			Tone frequency	2.5 kHz
			Sound output	80dB - max. 100dB
			Operating Voltage	24VDC
			Starting Current	< 500mA
			Current consumption	≤ 150mA
			Life Duration	> 5000h
			Weight	125g [4.41 oz]
			Temperature Range	-4 to 122˚F [-20 to 50˚C]
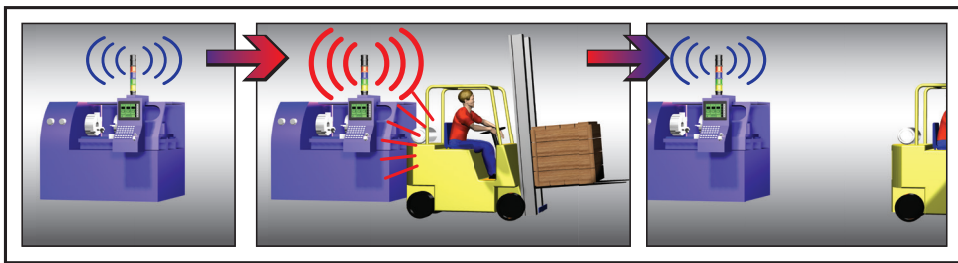
The siren element adjusts its sound output through continual measurement of the ambient noise level. The emitted tone is about 5dB louder than the background noise level. The warning signal can always be heard without being irritatingly loud for people in the siren's vicinity.

KS 71 Terminal Elements Specifications

KS 71 Terminal Element Specifications				
Part Number	*64082000*	*64080000*	*64083000*	*64081000*
Price				
Drawing Link	PDF	PDF	PDF	PDF
Description	Screw terminal element with cap and seal	Screwless terminal element with cap and seal	Screw terminal element with cap	Screwless terminal element with cap
Mounting	Base and Bracket Mounting		Tube Mounting	
Connection	max. 2.5 mm² - single wire M3 Clamps	max. 2.5 mm² CAGE CLAMP® technology	max. 2.5 mm² - single wire M3 Clamps	max. 2.5 mm² CAGE CLAMP® technology
Cable Entry	Cable diameter max. 14mm [0.55 in]			
Operating Temperature	-20 to 50˚C [-4 to 122˚F]			
Torque	max 0.4 N·m	–	max 0.4 N·m	–
Gauge	AWG 18 to AWG 14			
Weight	83g [2.93 oz]	75g [2.65 oz]	84g [2.96 oz]	77g [2.72 oz]
Housing Material	Polyamide Glass Fiber-Reinforced			

Screw terminal element
M3 clamps
(including cap)
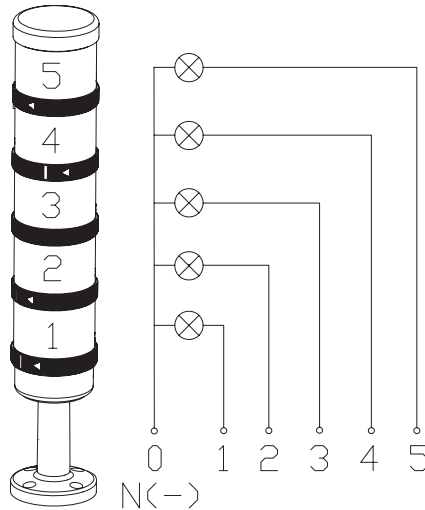
64080000

Terminal element with
CAGE CLAMP® technology
(including cap and seal)

KS 71 Mounting Hardware Specifications

Part Number		Price	Description	Drawing Link	Operating Temp	Material	Weight g [oz]
	97584510		Tube, 100mm [3.94 in]	PDF	-20 to 50˚C [-4 to 122˚F]	Anodized Aluminum	30 [1.06]
	97584025		Tube, 250mm [9.84 in]	PDF			73 [2.57]
	97584040		Tube, 400mm [15.75 in]	PDF			120 [4.23]
	97584060		Tube, 600mm [23.62 in]	PDF			180 [6.35]
	97584080		Tube, 800mm [31.49 in]	PDF			236 [8.32]
	97584003		Tube, 1000mm [39.37 in]	PDF			296 [10.44]
	96000018		Tube with clamp	PDF	–	Polythylene Tube Steel Clamp	175 [6.17]
	97584010		Base with integrated tube	PDF	-20 to 50˚C [-4 to 122˚F]	Polyamide Glass-Reinforced	63 [2.22]
	97584090		Plastic base for 25mm [0.98 in] diameter tube	PDF	-20 to 50˚C [-4 to 122˚F]	Polyamide Glass-Reinforced	40 [1.41]
	97584091		Metal base for 25mm [0.98 in] diameter tube	PDF	-20 to 50˚C [-4 to 122˚F]	Anodized Aluminum	110 [3.88]
	96000031		Plastic tube for foldaway base	PDF	-20 to 50˚C [-4 to 122˚F]	Polythylene	13 [0.46]

KS 71 Brackets & Contact Boxes Specifications

Part Number		Price	Description	Drawing Link	Temp. Range	Material	Weight g [oz]
	97584001		Contact box with side cable exit, with mounting material	PDF	-30 to 60°C [-22 to 140°F]	Polyamide	71 [2.50]
	97584004		Contact box with magnetic base and side cable exit	PDF	-30 to 60°C [-22 to 140°F]	Polyamide	316 [11.15]
	97584085		Bracket for 1-sided mounting, including rubber seals	PDF	-20 to 60°C [-4 to 140°F]	Polyamide	78 [2.75]
	97584086		Bracket for 2-sided mounting, including rubber seals	PDF	-20 to 60°C [-4 to 140°F]	Polyamide	76 [2.68]
	96000001		Bracket for base mounting with cable gland	PDF	-20 to 50°C [-4 to 122°F]	Polyamide	57 [2.01]
	96000002		Bracket for surface mounting with cable gland	PDF	-20 to 50°C [-4 to 122°F]	Polyamide	40 [1.41]
	96000014		Bracket for base mounting with concealed cable entry, including rubber seals	PDF	-20 to 50°C [-4 to 122°F]	Polyamide	80 [2.82]

Foldaway Base for KS 71 and KS 50

• The signal tower can be folded away while still connected
• Minimizes packaging costs and optimizes machine transportation
• Simple mounting and cable entry – for up to 14 mm diameter cables
• Vertical alignment of signal towers even on sloping surfaces
• Positioning in 7.5° steps, markings for 30, 45, 60, or 90 degrees

Foldaway Base for KS 71 and KS 50				
Part Number	Price	Drawing Link	Technical Specifications	
96000030		PDF	Material	Polyamide Glass Fiber-Reinforced
			Cable Diameter	Max. 14mm [0.55 in]
			Assembly	Includes rubber seals
			Fixing	Vertical or horizontal positioning
			Weight	165g [5.82 oz]

KS 71 Adapters Specifications

KS 71 Adapters Specifications					
Part Number	Price	Drawing Link	Description	Temperature Range	Weight g [oz]
96000004	____	PDF	Cable gland for surface mounting	-20 to 50˚C [-4 to 122˚F]	10 [0.35]
96000025	____	PDF	Adapter for single hole mounting	-20 to 50˚C [-4 to 122˚F]	165 [5.82]
97584002	____	PDF	Adapter for tube mounting	-20 to 50˚C [-4 to 122˚F]	81 [2.86]

96000004

96000025

97584002

Configuring Your Kombi*SIGN* 71 Stack Light

STEP 1
Select the required optical elements for your application

STEP 2
Select the optional audible elements for your application

Optical Signal Elements
- Incandescent Permanent Light
- LED Permanent Light
- LED Flashing Light
- LED Blinking Light
- LED Rotating Light
- Xenon Flashing Light

Audible Signal Elements
- Buzzer Element
- Siren Element

Plain Base Mount	Tube Base Mount

STEP 3
Select the correct terminal element for your mounting option (includes cap)

Screw terminal **Order no. 64082000**	CAGE CLAMP® terminal **Order no. 64080000**	Screw terminal **Order no. 64083000**	CAGE CLAMP® terminal **Order no. 64081000**

STEP 4
Where appropriate, select a base and the desired tube length (only for tube mounting)

Tube with clamp
Order no. 96000018

Adapter for single hole mounting
Order no. 96000025

Base with integrated tube
Order no. 97584010

Tube Ø 25 mm, all anodized

	Order no.
100 mm long	97584510
250 mm long	97584025
400 mm long	97584040
600 mm long	97584060
800 mm long	97584080
1000 mm long	97584003

**Base for Tube, plastic
Order no. 97584090**

Base for Tube, metal
Order no. 97584091

Foldaway Base
Order no. 96000030

Tube Ø 25 mm, plastic, only for Foldaway Base, 45 mm long
Order no. 96000031

STEP 5
Where appropriate, select the bracket and the contact box.

Contact box with side cable exit
Order no. 97584001

Bracket for base mounting
Order no. 96000002

Contact box with side cable exit
Order no. 97584001

Contact box with magnetic base and side cable exit
Order no. 97584004

Bracket for 1-sided mounting
Order no. 97584085

Bracket for 2-sided mounting
Order no. 97584086

Bracket for base mounting with concealed cable entry
Order no. 96000014

Bracket for tube mounting
Order no. 96000001

KS 71 Elements Quick Selection Guide

STEP 1 - Optical Elements Quick Selection Guide

Type of Light	Part Number		Color	Operating Voltage	Price	Type of Light	Part Number		Color	Operating Voltage	Price
Incandescent Permanent*	64110000		Red	Depends on bulb selection (bulb sold separately)		Xenon Flashing Light	64310055		Red	24VDC	
	64120000		Green				64320055		Green		
	64130000		Yellow				64330055		Yellow		
	64140000		Clear				64340055		Clear		
	64150000		Blue				64350055		Blue		
Incandescent Bulbs	95584035		Clear	24V AC/DC			64310067		Red	115VAC	
	95584038			230VAC			64320067		Green		
	95584057			115V AC/DC			64330067		Yellow		
							64340067		Clear		
LED Permanent	64410075		Red	24V AC/DC			64350067		Blue		
	64420075		Green			LED Blinking Light	64411075		Red	24V AC/DC	
	64430075		Yellow				64421075		Green		
	64440075		Clear				64431075		Yellow		
	64450075		Blue				64441075		Clear		
	64445055**		Multi	24VDC			64451075		Blue		
	64410067		Red	115VAC			64411067		Red	115VAC	
	64420067		Green				64421067		Green		
	64430067		Yellow				64431067		Yellow		
	64440067		Clear				64441067		Clear		
	64450067		Blue				64451067		Blue		
LED Flashing Light	64412055		Red	24VDC		LED Rotating Light	64413075		Red	24V AC/DC	
	64422055		Green				64423075		Green		
	64432055		Yellow				64433075		Yellow		
	64442055		Clear				64443075		Clear		
	64452055		Blue				64453075		Blue		

* Bulbs are required for permanent incandescent optical element.
** The multicolor element can be combined with up to 2 additional signal elements.

STEP 2 - Audible Elements Selection

Part Number	Description	Voltage	Tone Frequency	Max. Volume @ 1m	Price
64580075	Buzzer element	24V AC/DC	1.75 kHz	85dB	
64580077		115VAC			
64585055	Multi-functional siren, external trigger	24VDC	1.6 / 3.4 kHz	100dB	
64581055	Siren element with self-adjusting sound output	24VDC	2.5 kHz	100dB	

STEP 3 - Terminal Elements Selection

Part Number	Description	Mounting	Price
64082000	Screw terminal with M3 clamps	base bracket	
64080000	Terminal element with CAGE CLAMP® technology		
64083000	Screw terminal with M3 clamps	tube	
64081000	Terminal element with CAGE CLAMP® technology		

STEP 4 - Tube Mounting/Accessories Selection

Part Number	Description	Price
97584510	Anodized tube, 100mm [3.94 in] long	
97584025	Anodized tube, 250mm [9.84 in] long	
97584040	Anodized tube, 400mm [15.75 in] long	
97584060	Anodized tube, 600mm [23.62 in] long	
97584080	Anodized tube, 800mm [31.49 in] long	
97584003	Anodized tube, 1000mm [39.37 in] long	
96000018	Tube with clamp	
96000025	Adapter for single-hole mounting	
97584010	Base with integrated tube	
97584090	Plastic base for 25mm [0.98 in] diameter tube	
97584091	Metal base for 25mm [0.98 in] diameter tube	
96000031	Plastic tube for foldaway base	
97584002	Adapter for tube mounting	
96000004	Cable gland for surface mounting	
96000030	Foldaway base	

STEP 5 - Contact Boxes & Brackets Selection

Mounting Option	Part Number	Description	Price
Plain Base Mount	97584001	Contact box with side exit cable	
	96000002	Bracket for base mounting	
	97584085	Bracket for 1-sided mounting	
	97584086	Bracket for 2-sided mounting	
Tube Base Mount	97584001	Contact box with side exit cable	
	97584004	Contact box w/ magnetic base and side cable exit	
	96000014	Bracket for base mounting w/ concealed cable entry	
	96000001	Bracket for tube mounting	