

# 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]
<a href="#">64110000</a>	Red	<a href="#">PDF</a>	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]
<a href="#">64120000</a>	Green	<a href="#">PDF</a>									
<a href="#">64130000</a>	Yellow	<a href="#">PDF</a>									
<a href="#">64140000</a>	Clear	<a href="#">PDF</a>									
<a href="#">64150000</a>	Blue	<a href="#">PDF</a>	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]
<a href="#">64420075</a>	Green	<a href="#">PDF</a>			max. 25mA						
<a href="#">64430075</a>	Yellow	<a href="#">PDF</a>			max. 30mA						
<a href="#">64440075</a>	Clear	<a href="#">PDF</a>			max. 25mA						
<a href="#">64450075</a>	Blue	<a href="#">PDF</a>			max. 25mA						
<a href="#">64445055</a>	Multi	<a href="#">PDF</a>		24VDC	max. 120mA			up to 50,000h			63 [2.22]
<a href="#">64410067</a>	Red	<a href="#">PDF</a>		115VAC	max. 20mA	-	-20 to 50°C [-4 to 122°F] IP65	up to 100,000h	-	Polycarbonate	58 [2.05]
<a href="#">64420067</a>	Green	<a href="#">PDF</a>									
<a href="#">64430067</a>	Yellow	<a href="#">PDF</a>									
<a href="#">64440067</a>	Clear	<a href="#">PDF</a>									
<a href="#">64450067</a>	Blue	<a href="#">PDF</a>									
<a href="#">64412055</a>	Red	<a href="#">PDF</a>	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]
<a href="#">64422055</a>	Green	<a href="#">PDF</a>									
<a href="#">64432055</a>	Yellow	<a href="#">PDF</a>									
<a href="#">64442055</a>	Clear	<a href="#">PDF</a>									
<a href="#">64452055</a>	Blue	<a href="#">PDF</a>									
<a href="#">64310055</a>	Red	<a href="#">PDF</a>	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]
<a href="#">64320055</a>	Green	<a href="#">PDF</a>									
<a href="#">64330055</a>	Yellow	<a href="#">PDF</a>									
<a href="#">64340055</a>	Clear	<a href="#">PDF</a>									
<a href="#">64350055</a>	Blue	<a href="#">PDF</a>									
<a href="#">64310067</a>	Red	<a href="#">PDF</a>		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]
<a href="#">64320067</a>	Green	<a href="#">PDF</a>									
<a href="#">64330067</a>	Yellow	<a href="#">PDF</a>									
<a href="#">64340067</a>	Clear	<a href="#">PDF</a>									
<a href="#">64350067</a>	Blue	<a href="#">PDF</a>									
<a href="#">64411075</a>	Red	<a href="#">PDF</a>	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]
<a href="#">64421075</a>	Green	<a href="#">PDF</a>			max. 25mA						
<a href="#">64431075</a>	Yellow	<a href="#">PDF</a>			max. 30mA						
<a href="#">64441075</a>	Clear	<a href="#">PDF</a>			max. 25mA						
<a href="#">64451075</a>	Blue	<a href="#">PDF</a>			max. 25mA						
<a href="#">64411067</a>	Red	<a href="#">PDF</a>		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]
<a href="#">64421067</a>	Green	<a href="#">PDF</a>									
<a href="#">64431067</a>	Yellow	<a href="#">PDF</a>									
<a href="#">64441067</a>	Clear	<a href="#">PDF</a>									
<a href="#">64451067</a>	Blue	<a href="#">PDF</a>									
<a href="#">64413075</a>	Red	<a href="#">PDF</a>	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]
<a href="#">64423075</a>	Green	<a href="#">PDF</a>									
<a href="#">64433075</a>	Yellow	<a href="#">PDF</a>									
<a href="#">64443075</a>	Clear	<a href="#">PDF</a>									
<a href="#">64453075</a>	Blue	<a href="#">PDF</a>									



### 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
<a href="#">95584035</a>	Bulb for incandescent light BA15d Bayonet Socket	5W	24VDC	up to 5,000h
<a href="#">95584038</a>			230VAC	
<a href="#">95584057</a>			115VAC	



# KS 71 Audible Elements Specifications

KS 71 Audible Elements Specifications			
Part Number	<a href="#">64580075</a>	<a href="#">64580077</a>	<a href="#">64585055</a>
Price	\$58.00	\$69.00	\$116.00
Drawing Link	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
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.

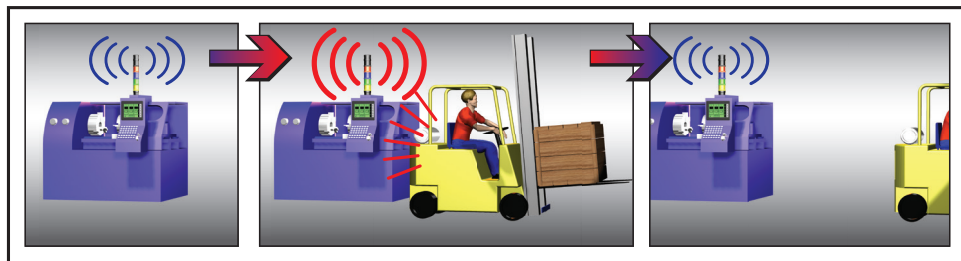
Number of tones available are limited by number of elements in stack.

## Siren Element with Self-Adjusting Sound Output

- Automatic sound output adjustment between 80 and 100 dB
- Sound output is about 5 dB louder than the background noise level
- Continual measurement of the ambient noise level
- Ideal for applications with changing ambient sound levels



KS 71 Self-Adjusting Siren Element			
Part Number	Price	Drawing Link	Technical Specifications
<a href="#">64581055</a>	\$152.00	<a href="#">PDF</a>	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]



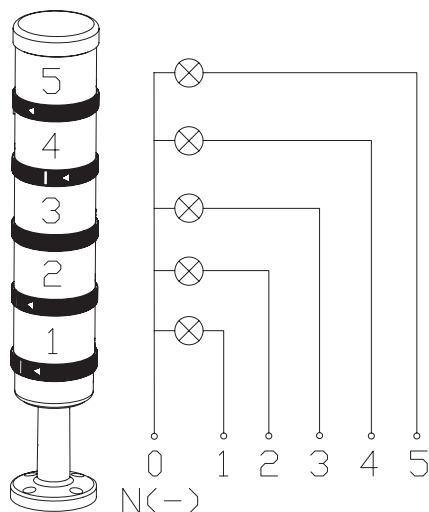
The siren element adjusts its sound output through continual measurement of the ambient noise level. The emitted tone is about 5dB louder than the background noise level. The warning signal can always be heard without being irritatingly loud for people in the siren's vicinity.

# KS 71 Terminal Elements Specifications

KS 71 Terminal Element Specifications				
Part Number	<a href="#">64082000</a>	<a href="#">64080000</a>	<a href="#">64083000</a>	<a href="#">64081000</a>
Price	\$31.50	\$31.50	\$31.50	\$31.50
Drawing Link	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
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 mm <sup>2</sup> - single wire M3 Clamps	max. 2.5 mm <sup>2</sup> CAGE CLAMP® technology	max. 2.5 mm <sup>2</sup> - single wire M3 Clamps	max. 2.5 mm <sup>2</sup> 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

KS 71 Mounting Hardware Specifications							
Part Number		Price	Description	Drawing Link	Operating Temp	Material	Weight g [oz]
	<a href="#">97584510</a>	\$13.50	Tube, 100 mm [3.94 in]	<a href="#">PDF</a>	-20 to 50°C [-4 to 122°F]	Anodized Aluminum	30 [1.06]
	<a href="#">97584025</a>	\$17.00	Tube, 250 mm [9.84 in]	<a href="#">PDF</a>			73 [2.57]
	<a href="#">97584040</a>	\$22.50	Tube, 400 mm [15.75 in]	<a href="#">PDF</a>			120 [4.23]
	<a href="#">97584060</a>	\$30.00	Tube, 600 mm [23.62 in]	<a href="#">PDF</a>			180 [6.35]
	<a href="#">97584080</a>	\$38.50	Tube, 800 mm [31.49 in]	<a href="#">PDF</a>			236 [8.32]
	<a href="#">97584003</a>	\$52.00	Tube, 1000 mm [39.37 in]	<a href="#">PDF</a>			296 [10.44]
	<a href="#">96000018</a>	\$56.00	Tube with clamp	<a href="#">PDF</a>	—	Polyamide Tube Steel Clamp	175 [6.17]
	<a href="#">97584010</a>	\$28.00	Base with integrated tube	<a href="#">PDF</a>	-20 to 50°C [-4 to 122°F]	Polyamide Glass-Reinforced	63 [2.22]
	<a href="#">97584090</a>	\$14.50	Plastic base for 25mm [0.98 in] diameter tube	<a href="#">PDF</a>	-20 to 50°C [-4 to 122°F]	Polyamide Glass-Reinforced	40 [1.41]
	<a href="#">97584091</a>	\$22.50	Metal base for 25mm [0.98 in] diameter tube	<a href="#">PDF</a>	-20 to 50°C [-4 to 122°F]	Anodized Aluminum	110 [3.88]
	<a href="#">96000031</a>	\$9.50	Plastic tube for foldaway base	<a href="#">PDF</a>	-20 to 50°C [-4 to 122°F]	Polyethylene	13 [0.46]

# KS 71 Brackets & Contact Boxes Specifications

Brackets & Contact Boxes Technical Specifications							
Part Number		Price	Description	Drawing Link	Temp. Range	Material	Weight g [oz]
	<a href="#"><u>97584001</u></a>	\$20.00	Contact box with side cable exit, with mounting material	<a href="#"><u>PDF</u></a>	-30 to 60°C [-22 to 140°F]	Polyamide	71 [2.50]
	<a href="#"><u>97584004</u></a>	\$55.00	Contact box with magnetic base and side cable exit	<a href="#"><u>PDF</u></a>	-30 to 60°C [-22 to 140°F]	Polyamide	316 [11.15]
	<a href="#"><u>97584085</u></a>	\$15.00	Bracket for 1-sided mounting, including rubber seals	<a href="#"><u>PDF</u></a>	-20 to 60°C [-4 to 140°F]	Polyamide	78 [2.75]
	<a href="#"><u>97584086</u></a>	\$17.00	Bracket for 2-sided mounting, including rubber seals	<a href="#"><u>PDF</u></a>	-20 to 60°C [-4 to 140°F]	Polyamide	76 [2.68]
	<a href="#"><u>96000001</u></a>	\$18.00	Bracket for base mounting with cable gland	<a href="#"><u>PDF</u></a>	-20 to 50°C [-4 to 122°F]	Polyamide	57 [2.01]
	<a href="#"><u>96000002</u></a>	\$18.00	Bracket for surface mounting with cable gland	<a href="#"><u>PDF</u></a>	-20 to 50°C [-4 to 122°F]	Polyamide	40 [1.41]
	<a href="#"><u>96000014</u></a>	\$22.00	Bracket for base mounting with concealed cable entry, including rubber seals	<a href="#"><u>PDF</u></a>	-20 to 50°C [-4 to 122°F]	Polyamide	80 [2.82]

# Foldaway Base for KS 71 and KS 50

## Features

- 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	
<a href="#">96000030</a>	\$60.00	<a href="#">PDF</a>	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]
<a href="#">96000004</a>	\$6.00	<a href="#">PDF</a>	Cable gland for surface mounting	-20 to 50°C [-4 to 122°F]	10 [0.35]
<a href="#">96000025</a>	\$56.00	<a href="#">PDF</a>	Adapter for single hole mounting	-20 to 50°C [-4 to 122°F]	165 [5.82]
<a href="#">97584002</a>	\$10.50	<a href="#">PDF</a>	Adapter for tube mounting	-20 to 50°C [-4 to 122°F]	81 [2.86]



[96000004](#)



[96000025](#)



[97584002](#)



# Configuring Your KombiSIGN 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)



**Plain Base Mount**

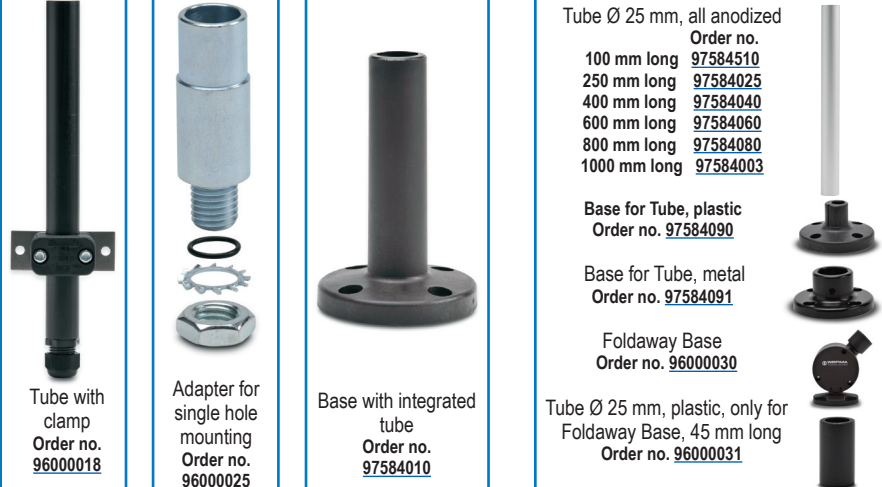
- Screw terminal  
Order no. [64082000](#)
- CAGE CLAMP® terminal  
Order no. [64080000](#)

**Tube Base Mount**

- 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)



**Plain Base Mount**

- Tube with clamp  
Order no. [96000018](#)
- Adapter for single hole mounting  
Order no. [96000025](#)
- Base with integrated tube  
Order no. [97584010](#)

**Tube Base Mount**

- Tube Ø 25 mm, all anodized  
Order no. [97584510](#)  
100 mm long [97584025](#)  
250 mm long [97584040](#)  
400 mm long [97584060](#)  
600 mm long [97584080](#)  
800 mm long [97584090](#)  
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.



**Plain Base Mount**

- Contact box with side cable exit  
Order no. [97584001](#)
- Bracket for base mounting  
Order no. [96000002](#)
- Bracket for 1-sided mounting  
Order no. [97584085](#)
- Bracket for 2-sided mounting  
Order no. [97584086](#)


**Tube Base Mount**

- Contact box with side cable exit  
Order no. [97584001](#)
- Contact box with magnetic base and side cable exit  
Order no. [97584004](#)
- 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*	<a href="#">64110000</a>	Red	Depends on bulb selection (bulb sold separately)	\$24.00	Xenon Flashing Light	<a href="#">64310055</a>	Red	24VDC	\$115.00
	<a href="#">64120000</a>	Green		\$24.00		<a href="#">64320055</a>	Green		\$115.00
	<a href="#">64130000</a>	Yellow		\$24.00		<a href="#">64330055</a>	Yellow		\$115.00
	<a href="#">64140000</a>	Clear		\$24.00		<a href="#">64340055</a>	Clear		\$115.00
	<a href="#">64150000</a>	Blue		\$24.00		<a href="#">64350055</a>	Blue		\$115.00
Incandescent Bulbs	<a href="#">95584035</a>		24V AC/DC	\$8.75		<a href="#">64310067</a>	Red	115VAC	\$100.00
	<a href="#">95584038</a>		230VAC	\$8.75		<a href="#">64320067</a>	Green		\$100.00
	<a href="#">95584057</a>		115V AC/DC	\$8.75		<a href="#">64330067</a>	Yellow		\$100.00
LED Permanent	<a href="#">64410075</a>	Red	24V AC/DC	\$58.00		<a href="#">64340067</a>	Clear		\$100.00
	<a href="#">64420075</a>	Green		\$58.00		<a href="#">64350067</a>	Blue		\$100.00
	<a href="#">64430075</a>	Yellow		\$58.00	LED Blinking Light	<a href="#">64411075</a>	Red	24V AC/DC	\$77.00
	<a href="#">64440075</a>	Clear		\$89.00		<a href="#">64421075</a>	Green		\$77.00
	<a href="#">64450075</a>	Blue		\$89.00		<a href="#">64431075</a>	Yellow		\$77.00
	<a href="#">64445055**</a>	Multi	24VDC	\$233.00		<a href="#">64441075</a>	Clear		\$101.00
	<a href="#">64410067</a>	Red	115VAC	\$69.00		<a href="#">64451075</a>	Blue		\$101.00
	<a href="#">64420067</a>	Green		\$69.00		<a href="#">64411067</a>	Red	115VAC	\$80.00
	<a href="#">64430067</a>	Yellow		\$69.00		<a href="#">64421067</a>	Green		\$80.00
	<a href="#">64440067</a>	Clear		\$101.00		<a href="#">64431067</a>	Yellow		\$80.00
	<a href="#">64450067</a>	Blue		\$101.00		<a href="#">64441067</a>	Clear		\$112.00
	<a href="#">64412055</a>	Red	24VDC	\$140.00		<a href="#">64451067</a>	Blue		\$112.00
LED Flashing Light	<a href="#">64422055</a>	Green		\$140.00	LED Rotating Light	<a href="#">64413075</a>	Red	24V AC/DC	\$129.00
	<a href="#">64432055</a>	Yellow		\$140.00		<a href="#">64423075</a>	Green		\$129.00
	<a href="#">64442055</a>	Clear		\$219.00		<a href="#">64433075</a>	Yellow		\$129.00
	<a href="#">64452055</a>	Blue		\$219.00		<a href="#">64443075</a>	Clear		\$199.00
						<a href="#">64453075</a>	Blue		\$199.00

\* 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
<a href="#">64580075</a>	Buzzer element	24V AC/DC	1.75 kHz	85dB	\$58.00
<a href="#">64580077</a>		115VAC			\$69.00
<a href="#">64585055</a>	Multi-functional siren, external trigger	24VDC	1.6 / 3.4 kHz	100dB	\$116.00
<a href="#">64581055</a>	Siren element with self-adjusting sound output	24VDC	2.5 kHz	100dB	\$152.00

## STEP 3 - Terminal Elements Selection

Part Number	Description	Mounting	Price
<a href="#">64082000</a>	Screw terminal with M3 clamps	base bracket	\$31.50
<a href="#">64080000</a>	Terminal element with CAGE CLAMP® technology		\$31.50
<a href="#">64083000</a>	Screw terminal with M3 clamps	tube	\$31.50
<a href="#">64081000</a>	Terminal element with CAGE CLAMP® technology		\$31.50

## STEP 4 - Tube Mounting/Accessories Selection

Part Number	Description	Price
<a href="#">97584510</a>	Anodized tube, 100mm [3.94 in] long	\$13.50
<a href="#">97584025</a>	Anodized tube, 250mm [9.84 in] long	\$17.00
<a href="#">97584040</a>	Anodized tube, 400mm [15.75 in] long	\$22.50
<a href="#">97584060</a>	Anodized tube, 600mm [23.62 in] long	\$30.00
<a href="#">97584080</a>	Anodized tube, 800mm [31.49 in] long	\$38.50
<a href="#">97584003</a>	Anodized tube, 1000mm [39.37 in] long	\$52.00
<a href="#">96000018</a>	Tube with clamp	\$56.00
<a href="#">96000025</a>	Adapter for single-hole mounting	\$56.00
<a href="#">97584010</a>	Base with integrated tube	\$28.00
<a href="#">97584090</a>	Plastic base for 25mm [0.98 in] diameter tube	\$14.50
<a href="#">97584091</a>	Metal base for 25mm [0.98 in] diameter tube	\$22.50
<a href="#">96000031</a>	Plastic tube for foldaway base	\$9.50
<a href="#">97584002</a>	Adapter for tube mounting	\$10.50
<a href="#">96000004</a>	Cable gland for surface mounting	\$6.00
<a href="#">96000030</a>	Foldaway base	\$60.00

## STEP 5 - Contact Boxes & Brackets Selection

Mounting Option	Part Number	Description	Price
Plain Base Mount	<a href="#">97584001</a>	Contact box with side exit cable	\$20.00
	<a href="#">96000002</a>	Bracket for base mounting	\$18.00
	<a href="#">97584085</a>	Bracket for 1-sided mounting	\$15.00
	<a href="#">97584086</a>	Bracket for 2-sided mounting	\$17.00
Tube Base Mount	<a href="#">97584001</a>	Contact box with side exit cable	\$20.00
	<a href="#">97584004</a>	Contact box w/ magnetic base and side cable exit	\$55.00
	<a href="#">96000014</a>	Bracket for base mounting w/ concealed cable entry	\$22.00
	<a href="#">96000001</a>	Bracket for tube mounting	\$18.00