



Overview Installation Beacons

LED Permanent Beacons

<p>230 and 230 Economy</p>  <p>M22 x 1.5 mm Page 98</p>	<p>231 and 231 Economy</p>  <p>M22 x 1.5 mm Page 100</p>	<p>207</p>  <p>M22 x 1.5 mm Page 105</p>	<p>801</p>  <p>for Ø 37 mm (PG29) Page 108</p>	<p>816</p>  <p>for Ø 37 mm (PG29) Page 117</p>
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LED Permanent Beacons (Multicolour)

<p>239 Multicolour</p>  <p>M22 x 1.5 mm 5 colours Page 102</p>	<p>239 for AS-Interface</p>  <p>M22 x 1.5 mm 5 colours Page 103</p>	<p>NEW 816 Multicolour with M12 plug</p>  <p>for Ø 37 mm (PG29) 7 colours Page 111</p>	<p>816 multicolour with USB Interface</p>  <p>for Ø 37 mm (PG29) 200,000 colours Page 112</p>
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Permanent Beacons

<p>206</p>  <p>M22 x 1.5 mm Page 104</p>	<p>216</p>  <p>M22 x 1.5 mm Page 106</p>	<p>800</p>  <p>for Ø 37 mm (PG29) Page 107</p>	<p>815</p>  <p>for Ø 37 mm (PG29) Page 109</p>
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Flashing Beacons

<p>232</p>  <p>M22 x 1.5 mm Page 113</p>	<p>208</p>  <p>M22 x 1.5 mm Page 114</p>	<p>802</p>  <p>for Ø 37 mm (PG29) Page 115</p>	<p>817</p>  <p>for Ø 37 mm (PG29) Page 116</p>	<p>816</p>  <p>for Ø 37 mm (PG29) Page 117</p>
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LED Blinking Light

Bulbs

LED Bulbs Page 182 + 183
Bulb Overview Page 184 + 185

Further information

Further information about "Optical Signal Devices" can be found in the chapter "General Information" beginning on page 356.



Optical Signal Devices

Variety of light signals

Installation beacons from WERMA assist in indicating process conditions, risks and imminent dangers in modern production areas clearly and in good time.

The urgency of the required course of action can be indicated by the colour as well as the type and duration of the signal. As a basic principle, the colours red, yellow, green, blue and clear are employed. The available light effects in WERMA installation beacons range from a permanent light and a long life LED permanent light to an attention-grabbing flashing light.



Permanent light and LED Permanent light

With the assistance of a permanent light or an LED permanent light the operator is made aware of a specific condition or is instructed to carry out a certain course of action.

For safety reasons signal beacons are increasingly equipped with light emitting diodes. The failure of optical signal devices is significantly reduced as a result of the longer life duration of LEDs. Furthermore, LEDs offer a range of advantages compared to conventional light bulbs for example lower current consumption, greater resistance to shocks, vibrations and other mechanical stress.



LED Beacons (Multicolour)

As well as offering traditional single coloured beacons, Werma has several multicolour LED products which give the user multiple colour choices in just one beacon.

The 816 LED beacon with USB connection uses RGB LED technology from which you can select up to 200,000 colour variants also in different light effects, such as permanent, blink or special flash.

The LED multicolour beacons 239 and 816 with M12 connectors offer up to 7 colours and enable you to signal several different status conditions with just one beacon.



Flashing Light

The deployment of a flashing signal can generate even more attention than a permanent light. The reason for this is to be found in the very short flash duration.

Inside each Xenon flashing beacon there is a capacitor which stores electrical energy. Within the space of a few milliseconds this energy is discharged within the flash tube, generating a very intense light impulse.

The life duration of a flash tube is heavily dependent on the respective load. The average life duration in permanent operation is 4×10^6 flashes.



WERMA Installation Beacons

Installation beacons are designed for mounting in drill holes. A characteristic of this type of beacon is the rear fixture using a central nut.

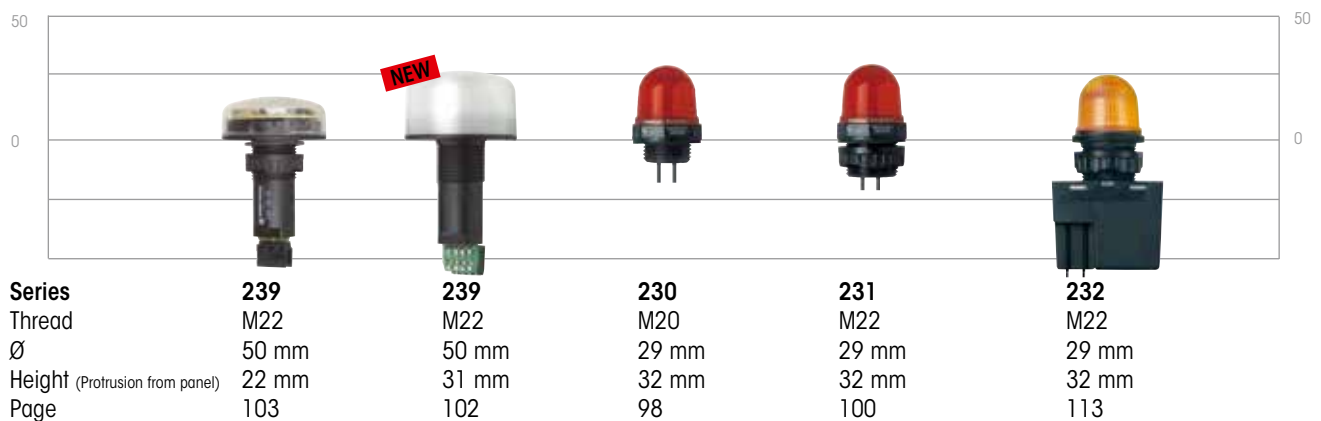


Advantages

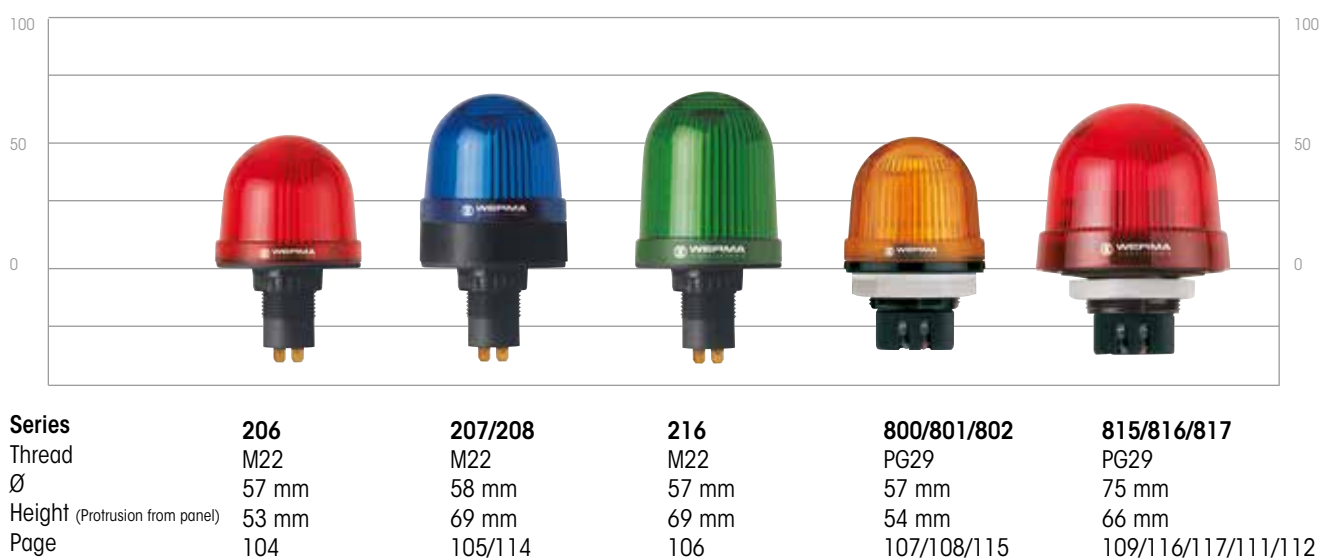
- Large variety of versions: Available as permanent, blinking, flashing or LED beacons
- IP 65 for indoor and outdoor applications
- Modern design
- Beacons available in five colours
- LED Multicolour Beacons with 5 or up to 200,000 colours in one beacon
- Beacon diameter between 25 and 75 mm
- Available in three thread diameters

Sizes

COMPARISON OF WERMA INSTALLATION BEACONS



COMPARISON OF WERMA INSTALLATION BEACONS





- LED Permanent beacon with M20 thread for applications such as limit and cable-operated switches
- Extremely high light intensity
- Ideal for installation in limited space due to short thread

Life duration up to 100,000 hrs

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	29 mm x 32 mm (Protrusion from panel)
Housing:	PC/ABS-Blend
Lens:	PC, transparent
Connection:	2 wires, c. 115 mm long
Fixing:	Installation mounting for Ø 20.5 mm (M20 x 1.5 mm)

Seal included in assembly.

🛒 ORDER SPECIFICATIONS:

Voltage	12 V DC	24 V DC	115 V AC	230 V AC
Current consumption	80 mA	45 mA	15 mA	20 mA
red	230 100 54	230 100 55	230 100 67	230 100 68
yellow	230 300 54	230 300 55	230 300 67	230 300 68
clear	-	230 400 55	-	-

Further colours on request.



Mainly sideways illumination

📐 TECHNICAL DIAGRAMS:

see page 302

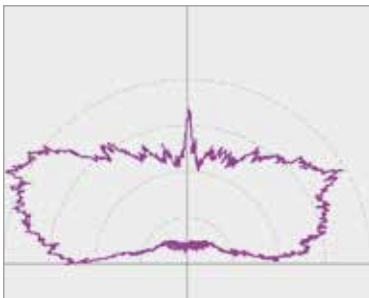


Illustration of the light distribution for the LED Installation Beacon 230



The LED Installation Beacon 230 can for example be used in applications with cable-operated switches or limit switch devices

Sizes of Permanent Beacons



See note on page 347

UL US

CE

EAC

12 g

IP65

+50°C
-20°C

24 V
PLC



Upward illumination

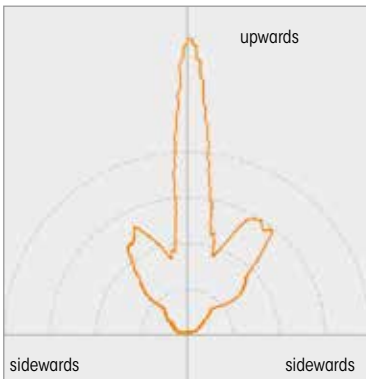


Illustration of the light distribution for the Economy LED Installation Beacon 230

- Innovative LED technology with upward illumination
- Ideal for installation in limited space due to short thread
- LED Permanent Beacon with M20 thread for the limit and cable-operated switches

Life duration up to 100,000 hrs

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	29 mm x 32 mm (Protrusion from panel)
Housing:	PC/ABS-Blend
Lens:	PC, transparent
Connection:	2 wires, c. 115 mm long
Fixing:	Installation mounting for Ø 20.5 mm (M20 x 1.5 mm)

Seal included in assembly.

🛒 ORDER SPECIFICATIONS:

Voltage	24 V DC
Current consumption	30 mA
red	230 104 55
yellow	230 304 55
clear	230 404 55

⚠️ ADDITIONAL INFORMATION:

LED Installation Beacon 230 Economy attains an extremely high level of visibility thanks to completely new LED technology with upward illumination.

This innovative solution draws upon the most advanced technology and is furthermore resistant to vibration and other mechanical stress.

The LED Beacon 230 has a short M20 thread and is especially suitable for installation in small spaces such as cable-operated switches or limit switches.



📐 TECHNICAL DIAGRAMS:

see page 302

Sizes of Permanent Beacons





- LED Permanent Beacon with M22 thread for the control panel/switchgear programme
- Extremely high light intensity

Life duration up to 100,000 hrs

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	29 mm x 32 mm (Protrusion from panel)
Housing:	PC/ABS-Blend
Lens:	PC, transparent
Connection:	2 wires, c. 105 mm long
Fixing:	Installation mounting for Ø 22.5 mm (M22 x 1.5 mm)
Nut and seal included in assembly.	

ORDER SPECIFICATIONS:

	12 V DC	24 V DC	115 V AC	230 V AC
Voltage	12 V DC	24 V DC	115 V AC	230 V AC
Current consumption	80 mA	45 mA	15 mA	20 mA
red	231 100 54	231 100 55	231 100 67	231 100 68
green	231 200 54	231 200 55	231 200 67	231 200 68
yellow	231 300 54	231 300 55	231 300 67	231 300 68
clear	231 400 54	231 400 55	231 400 67	231 400 68
blue	231 500 54	231 500 55	231 500 67	231 500 68

TECHNICAL DIAGRAMS:

see page 302



Mainly sideways illumination

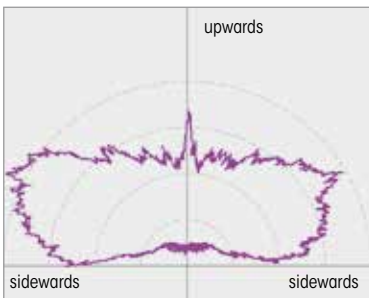
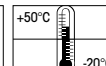


Illustration of the light distribution for the LED Installation Beacon 231

Sizes of Permanent Beacons



See note on page 347



24 V





- Innovative LED technology with upward illumination

- LED Permanent Beacon with M22 thread for the control panel/switchgear programme

Life duration up to 100,000 hrs

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	29 mm x 32 mm (Protrusion from panel)
Housing:	PC/ABS-Blend
Lens:	PC, transparent
Connection:	2 wires, c. 105 mm long
Fixing:	Installation mounting for Ø 2.5 mm (M22 x 1.5 mm)

Nut and seal included in assembly.

🛒 ORDER SPECIFICATIONS:

Voltage	24 V DC
Current consumption	30 mA
red	231 104 55
green	231 204 55
yellow	231 304 55
clear	231 404 55
blue	231 504 55

⚠️ ADDITIONAL INFORMATION:

LED Installation Beacon 231 Economy attains an extremely high level of visibility thanks to completely new LED technology with upward illumination.

This innovative solution draws upon the most advanced technology and is furthermore resistant to vibration and other mechanical stress.

The LED Beacon 231 has an M22 thread and is especially suitable for use in control panel/switch gear applications.



Upward illumination

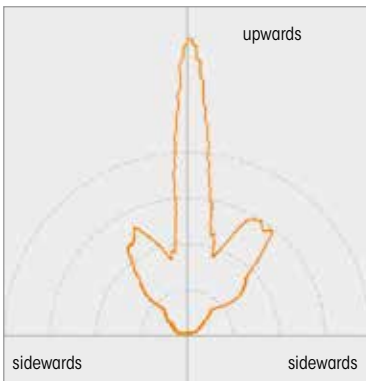


Illustration of the light distribution for the Economy LED Installation Beacon 231

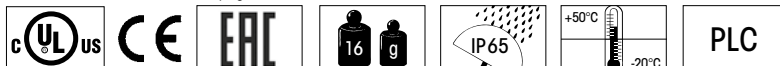
📐 TECHNICAL DIAGRAMS:

see page 302

Sizes of Permanent Beacons



See note on page 347



LED Installation Beacon (Multicolour)



LED Installation Beacon
(Multicolour)

- 5 colours in one beacon
- Multiple status warnings can signalled by one beacon
- Colours can be triggered via the terminals
- Positive and negative control logic
- The three basic colours (red/yellow/green) can be triggered using only two PLC outputs

Life duration
up to 50.000 hrs

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	50 mm x 22 mm (Protrusion from panel) 50 mm x 31 mm (Protrusion from panel)
Housing:	PC/ABS-Blend, black
Lens:	PC, transparent
Fixing:	Installation mounting for Ø 22.5 mm (M22 x 1.5 mm)
Connection:	Screw terminal max. 0.5 mm ² (239 480 55) Push In max. 1.5 mm ² (239 482 55)
Colour options:	Red, yellow, green, white, blue (multicolour)

Nut and seal included in assembly.

ORDER SPECIFICATIONS:

Voltage	24 V DC
Current consumption	Max. 75 mA
Low lens, clear	239 480 55
NEW Raised lens, opaque	239 482 55

ADDITIONAL INFORMATION:

The LED beacon 239 is suitable for applications on machines or in control panels.

The LED installation beacon (multicolour) can be single-hole mounted with ease thanks to its M22 installation dimensions.

X1	X2	X3	X4	X5	Colour
			nc	COM	OFF
		24V DC	nc	COM	RD
	24V DC		nc	COM	GN
	24V DC	24V DC	nc	COM	YE
24V DC			nc	COM	BU
24V DC	24V DC	24V DC	nc	COM	WH



Five colours in one beacon:
red, yellow, green, white and blue

TECHNICAL DIAGRAMS:

see page 302

Sizes of Permanent Beacons



See note
on page 347



LED Installation Beacon (Multicolour) for AS-Interface

- 5 colours possible in one beacon
- Colours can be triggered and changed via AS-Interface
- 2 pin terminal for easy AS-Interface connection



Five colours in one beacon: red, yellow, green, white and blue

Life duration up to 50,000 hrs

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	50 mm x 22 mm (Protrusion from panel)
Housing:	PC/ABS-Blend, black
Lens:	PC, transparent
Fixing:	Installation mounting for Ø 22.5 mm (M22 x 1.5 mm) with anti-twist device
Connection:	Screw terminal with wire protection max. 1.5 mm ²
Power supply AS-Interface:	Via bus conduction
Operating voltage:	25 V ... 31.6 V according to the AS-Interface specification
Current consumption:	≤ 100 mA
Specification:	V3.0
IO-Code:	8 _{HEX}
ID-Code:	A _{HEX}
ID2-Code:	E _{HEX}
Colour options:	Red, yellow, green, white, blue

Nut and seal included in assembly.

ORDER SPECIFICATIONS:

LED Installation Beacon (multicolour) for AS-Interface **239 780 55**

ADDITIONAL INFORMATION:

Extended addressing in accordance with V3.0

The LED Installation Beacon (Multicolour) for AS-Interface is suitable for the extended addressing (A/B technology) of up to 62 modules. The beacon is supplied with power via the bus.



TECHNICAL DIAGRAMS:

see page 303

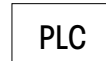
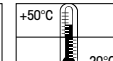
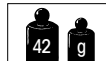


Thanks to its compact dimensions and the AS-Interface technology, the LED beacon 239 is especially suited to automation applications

Sizes of Permanent Beacons



See note on page 347





- Optimised illumination
- Suitable for use in the 22 mm control panel/switchgear programme
- Simple connection by means of 6.3 mm spades
- 360° visibility
- Bulb change via removal of lens

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	57 mm x 53 mm (Protrusion from panel)
Housing:	PA-GF, high impact
Lens:	PC, transparent
Connection:	Spades 6.3 x 0.8 mm Finger-proof model according to BGV A2, when used with insulated spades
Fixing:	Installation mounting for Ø 22.5 mm (M22 x 1.5 mm) with anti-twist device
Operating voltage:	Max. 48 V
Bulb socket:	BA15d 5 Watt max.
Bulb change:	Via removal of lens
Nut and seal included in assembly. Bulb not included in assembly.	

ORDER SPECIFICATIONS:

Voltage	12-48 V
red	206 100 00
green	206 200 00
yellow	206 300 00
clear	206 400 00
blue	206 500 00

Further colours and voltages on request.

ACCESSORIES:

Bulb BA15d
total length 42 mm

Voltage	12 V	24 V	30 V
	955 840 34	955 840 35	955 840 32

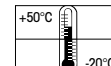
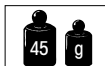
LED bulb BA15d
total length 42 mm

Voltage	24 V AC/DC
Current consumption	< 45 mA
red	956 100 75
green	956 200 75
yellow	956 300 75
white	956 400 75
blue	956 500 75

TECHNICAL DIAGRAMS:

see page 299

See note on page 347



Bulb change via removal of lens (LED bulb as accessory)



Accessories

Sizes of Permanent Beacons





- Optimised illumination
- Suitable for use in the 22 mm control panel/switchgear programme
- Simple connection by means of 6.3 mm spades
- 360° visibility

Life duration up to 100,000 hrs

i TECHNICAL SPECIFICATIONS:	
Dimensions (Ø x Height):	58 mm x 69 mm (Protrusion from panel)
Housing:	PA-GF, high impact
Lens:	PC, transparent, Ring: PC
Connection:	Spades 6.3 x 0.8 mm Finger-proof model according to BGV A2, when used with insulated spades
Fixing:	Installation mounting for Ø 22.5 mm (M22 x 1.5 mm) with anti-twist device

🛒 ORDER SPECIFICATIONS:			
Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	45 mA	25 mA	25 mA
red	207 100 75	207 100 67	207 100 68
green	207 200 75	207 200 67	207 200 68
yellow	207 300 75	207 300 67	207 300 68
Further colours and voltages on request.			

📐 TECHNICAL DIAGRAMS:
see page 299



See note on page 347

c UL US

CE

EAC

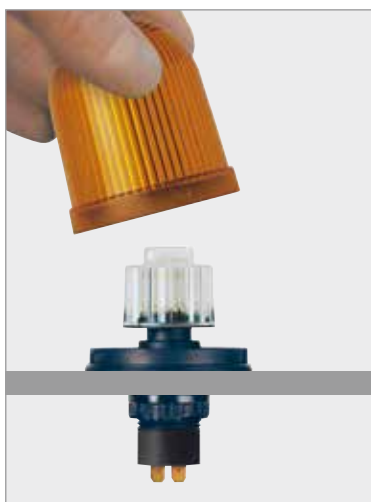
55 g

IP65

+50°C
-20°C

24 V
PLC





Bulb change via removal of lens
(LED bulb as accessory)



Accessories

Sizes of Permanent Beacons



- Optimised illumination
- 360° visibility
- Suitable for use in the 22 mm control panel/switchgear programme
- Simple connection by means of 6.3 mm spades
- Bulb change via removal of lens

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	57 mm x 69 mm (Protrusion from panel)
Housing:	PA-GF, high impact
Lens:	PC, transparent
Connection:	Spades 6.3 mm x 0.8 mm Finger-proof model according to BGV A2, when used with insulated spades
Fixing:	Installation mounting for Ø22.5 mm (M22 x 1.5 mm) with anti-twist device
Operating voltage:	Max. 48 V
Bulb socket:	BA15d, 7 Watt max.
Bulb change:	Via removal of lens
Nut and seal included in assembly. Bulb not included in assembly.	

ORDER SPECIFICATIONS:

Voltage	12-48 V
red	216 100 00
green	216 200 00
yellow	216 300 00
clear	216 400 00
blue	216 500 00

ACCESSORIES:

Bulb BA15d, total length 54 mm

Voltage	12 V (7 W)	24 V (7 W)	30 V (5 W)
	955 015 34	955 015 35	955 840 32

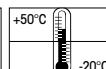
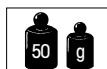
LED bulb BA15d, total length 42 mm

Voltage	24 V AC/DC
Current consumption	< 45 mA
red	956 100 75
green	956 200 75
yellow	956 300 75
white	956 400 75
blue	956 500 75

TECHNICAL DIAGRAMS:

see page 301

See note
on page 347





Bulb change via rear access with bayonet mechanism



Accessories



- Tamper-proof - bulb change via rear access with bayonet mechanism
- With anti-twist device (as accessory)
- Available with tube adaptor as free-standing beacon



TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	57 mm x 54 mm (Protrusion from panel)
Housing:	PC/ABS-Blend Socket: PA-GF, high impact
Lens:	PC, transparent
Fixing:	Installation mounting for Ø 37 mm (PG29)
Connection:	Screw terminal max. 1.5 mm ² flex radial or axial laid
Operating voltage:	Max. 250 V
Bulb socket:	BA15d, 7 Watt max.
Bulb change:	Via rear access with bayonet mechanism
Bulb not included in assembly.	



ORDER SPECIFICATIONS:

Voltage	12-240 V
red	800 100 00
green	800 200 00
yellow	800 300 00
clear	800 400 00
blue	800 500 00



ACCESSORIES:

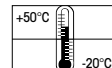
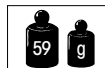
Bulb BA15d, 5 W, total length 42 mm					
Voltage	12 V	24 V	30 V	115 V	230 V
	955 840 34	955 840 35	955 840 32	955 840 57	955 840 38
Tube adaptor	975 812 01				
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10				
Base for tube mounting	975 840 90				
Base for base mounting	975 812 02				
Tube Ø 25 mm, all anodized aluminium					
100 mm long	975 845 10				
250 mm long	975 840 25				
400 mm long	975 840 40				
Anti-twist device	975 815 22				
Surface housing IP 65					
for 1 Installation Beacon	975 815 03				
for 2 Installation Beacons	975 815 07				
for 3 Installation Beacons	975 815 08				
for 4 Installation Beacons	975 109 05				



TECHNICAL DIAGRAMS:

see page 315

See note on page 347





Tube adaptor as accessory



Accessories

- Long-life LED Permanent Beacon
- With anti-twist device (as accessory)
- Available with tube adaptor as free-standing beacon

Life duration up to 100,000 hrs

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	57 mm x 54 mm (Protrusion from panel)
Housing:	PC/ABS-Blend
	Socket: PA-GF, high impact
Lens:	PC, transparent
Fixing:	Installation mounting for Ø 37 mm (PG29)
Connection:	Screw terminal max. 2.5 mm ² flex radial or axial laid

ORDER SPECIFICATIONS:

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	45 mA	25 mA	25 mA
red	801 100 75	801 100 67	801 100 68
green	801 200 75	801 200 67	801 200 68
yellow	801 300 75	801 300 67	801 300 68

Further colours and voltages on request.

ACCESSORIES:

Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Base for tube mounting	975 840 90
Base for base mounting	975 812 02
Tube Ø 25 mm, all anodized aluminium	
100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 40
Anti-twist device	975 815 22
Surface housing IP 65	
for 1 Installation Beacon	975 815 03
for 2 Installation Beacons	975 815 07
for 3 Installation Beacons	975 815 08
for 4 Installation Beacons	975 109 05

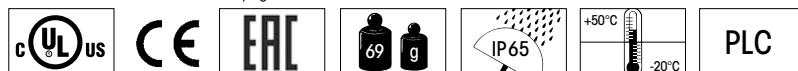
TECHNICAL DIAGRAMS:

see page 315

Sizes of Permanent Beacons



See note on page 347





- Vandal-proof construction withstands every mechanical and natural challenge
- High impact polycarbonate lens (up to 20 Joules)
- Tamper-proof - bulb change via rear access with bayonet mechanism



Vandal-proof construction



Accessories

Sizes of Permanent Beacons



i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	75 mm x 66 mm (Protrusion from panel)
Housing:	PC/ABS-Blend, Socket: PA-GF, high impact
Lens:	PC transparent
Fixing:	Shock resistance 20 Joules according to EN 60079-0
Connection:	Installation mounting for Ø 37 mm (PG29)
Operating voltage:	Screw terminal max. 2.5 mm ²
Bulb socket:	flex radial or axial laid
Bulb change:	Max. 250 V
	BA15d, 5 Watt max.
	Via rear access with bayonet mechanism
	Bulb not included in assembly.

🛒 ORDER SPECIFICATIONS:

Voltage	12-240 V
red	815 100 00
green	815 200 00
yellow	815 300 00
clear	815 400 00
blue	815 500 00

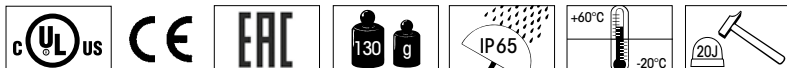
🏠 ACCESSORIES:

Bulb BA15d, 5 W, total length 42 mm	
Voltage	12 V 24 V 30 V 115 V 230 V
	955 840 34 955 840 35 955 840 32 955 840 57 955 840 38
Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Base for tube mounting	975 840 90
Base for base mounting	975 812 02
Tube Ø 25 mm, all anodized aluminium	
100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 40
Anti-twist device	975 815 22
Surface housing IP 65	
for 1 Installation Beacon	975 815 03
for 2 Installation Beacons	975 815 07
for 3 Installation Beacons	975 815 08
for 4 Installation Beacons	975 109 05

📐 TECHNICAL DIAGRAMS:

see page 315

See note on page 347





Tube adaptor as accessory



Surface housing as accessory

- Long-life LED Permanent Beacon
- Vandal-proof construction withstands every mechanical and natural challenge
- High impact polycarbonate lens (up to 20 Joules)

Life duration up to 100,000 hrs

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	75 mm x 66 mm (Protrusion from panel)
Housing:	PC/ABS-Blend Socket: PA-GF, high impact
Lens:	PC transparent Shock resistance 20 Joules according to EN 60079-0
Fixing:	Installation mounting for Ø 37 mm (PG29)
Connection:	Screw terminal max. 2.5 mm ² flex radial or axial laid

ORDER SPECIFICATIONS:

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	45 mA	25 mA	25 mA
red	816 100 55	816 100 67	816 100 68
green	816 200 55	816 200 67	816 200 68
yellow	816 300 55	816 300 67	816 300 68
clear	816 400 55	816 400 67	816 400 68

ACCESSORIES:

Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Base for tube mounting	975 840 90
Base for base mounting	975 812 02
Tube Ø 25 mm, all anodized aluminium	
100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 40
Anti-twist device	975 815 22
Surface housing IP 65	
for 1 Installation Beacon	975 815 03
for 2 Installation Beacons	975 815 07
for 3 Installation Beacons	975 815 08
for 4 Installation Beacons	975 109 05

Accessories see page 109

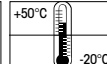
TECHNICAL DIAGRAMS:

see page 315

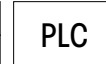
Sizes of Permanent Beacons



See note on page 347



24 V



NEW



816 Multicolour with clear lens



816 Multicolour with opaque lens



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

Sizes of Permanent Beacons



- 7 colours in one beacon
- Multiple status warnings can be signalled by one beacon
- Positive and negative logic
- The three basic colours (red/yellow/green) can be triggered using only two PLC outputs

Life duration up to 50,000 hrs

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	75 mm x 66 mm (Protrusion from panel)
Housing:	ABS/PC-Blend, black
Lens:	PC, transparent
	Shock resistance 20 Joules according to EN 60079-0
Fixing:	Installation mounting for Ø 37 mm (PG29)
Connection:	M12 plug (4 pole)
Colour options:	Red, yellow, green, white, blue (multicolour)

ORDER SPECIFICATIONS:

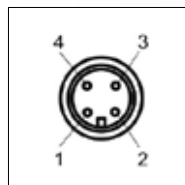
Voltage	24 V DC
Current consumption	max. 120 mA
clear lens	816 480 55
opaque lens	816 780 55

ACCESSORIES:

Cable 5m with M12 plug	960 693 05
Base for base mounting	975 812 02
Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Tube Ø 25 mm, all anodized aluminium	
100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 40
Base for tube mounting	975 840 91
Anti-twist device	975 815 22

ADDITIONAL INFORMATION:

Easy triggering



PIN				Colour
1	2	3	4	
24 V	-	GND	-	rd
-	24 V	GND	-	gn
24 V	24 V	GND	-	ye
-	-	GND	24 V	bu
24 V	24 V	GND	24 V	wh
24 V	-	GND	24 V	vt
-	24 V	GND	24 V	tg

TECHNICAL DIAGRAMS: see page 316

See note on page 347



816 LED Beacon (Multicolour) with USB Interface



- More than 200,000 colours possible in one beacon (Multicolour)
- Direct triggering of the beacon via USB Interface
- No additional power supply or hardware necessary
- Compatible with USB 2.0 and 1.1

Life duration up to 50,000 hrs

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	75 mm x 66 mm (Protrusion from panel)
Housing:	ABS/PC-Blend, black
Lens:	PC, transparent
Fixing:	Shock resistance 20 J according to EN 60079-0 Installation mounting for Ø 37 mm (PG29) Base and wall mounting possible (accessories)
Connection:	Mini USB 2.0 downward cable outlet
Power supply:	Via USB
Colour options:	More than 200,000 colours (RGB LED)
Suitable for:	Windows 2000, Windows XP, Windows Vista, Windows 7
Assembly:	LED beacon, demo software, driver and USB connection cable included, 1.8 m long

ORDER SPECIFICATIONS:

Voltage	5 V (USB-Connection)
Current consumption	≤ 500 mA
clear lens	816 480 53
opaque lens	816 780 53

ACCESSORIES:

You will find the appropriate accessories for base or tube mounting on page 109 or under www.werma.com

ADDITIONAL INFORMATION:

The installation LED Beacon with USB interface is compatible with USB 2.0 and 1.1.

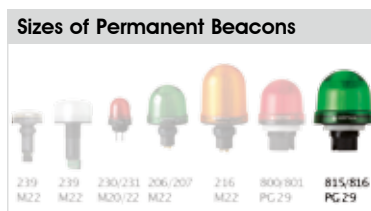
A wide range of colours and light effects can be quickly and simply programmed by the customer and altered at any time.



With RGB LEDs more than 200.000 colours can be selected

TECHNICAL DIAGRAMS:

see page 316



See note on page 347



Simple triggering as no special software is required



- Extremely bright Xenon Flash
- Multivoltage Flashing Beacon
- Simple installation by clicking the beacon onto the housing
- 22 mm installation diameter for the control panel/switchgear programme

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	29 mm x 32 mm (Protrusion from panel)
Housing:	PC/ABS-Blend
Lens:	PC, transparent
Connection:	2 wires, c. 600 mm long
Fixing:	Installation mounting for Ø 22.5 mm (M22 x 1.5 mm) with anti-twist device
Flash frequency:	1.5 Hz
Flash energy:	1 Ws
Life duration:	4 x 10 ⁶ flashes

Nut and seal included in assembly.

ORDER SPECIFICATIONS:

Voltage	24 V AC/DC (10-100 V DC) (20-72 V AC)	115 V AC	230 V AC
Current consumption	140 mA	30 mA	20 mA
red	232 100 55	232 100 67	232 100 68
yellow	232 300 55	232 300 67	232 300 68

TECHNICAL DIAGRAMS:

see page 302



Simple mounting with click-on electronics module

Sizes of Flashing Beacons



See note on page 347

CE EAC 54g IP65 +50°C -20°C 1 24 V Ws PLC





- Optimised illumination
- 360° visibility
- Simple connection by means of 6.3 mm spades
- Suitable for use in the 22 mm control panel/switchgear programme

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	58 mm x 69 mm (Protrusion from panel)
Housing:	PA-GF, high impact
Lens:	PC, transparent; Ring: PC
Connection:	Spades 6.3 x 0.8 mm Finger-proof model according to BGV A2, when used with insulated spades
Fixing:	Installation mounting for Ø 22.5 mm (M22 x 1.5 mm) with anti-twist device
Flash frequency:	C. 0.75 Hz
Flash energy:	1 Ws
Life duration:	4 x 10 ⁶ flashes
Nut and seal included in assembly.	

ORDER SPECIFICATIONS:

Voltage	24 V DC	115 V AC	230 V AC
Current consumption	100 mA	25 mA	30 mA
red	208 100 55	208 100 67	208 100 68
yellow	208 300 55	208 300 67	208 300 68
Further colours and voltages on request.			

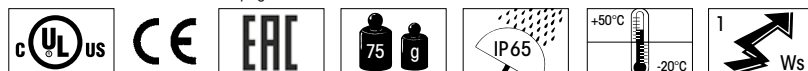
TECHNICAL DIAGRAMS:

see page 299

Sizes of Flashing Beacons



See note on page 347





Tube adaptor as accessory



Accessories

- Light intense Xenon flash
- With anti-twist device (as accessory)
- Available with tube adaptor as free-standing beacon

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	57 mm x 54 mm (Protrusion from panel)		
Housing:	PC/ABS-Blend		
	Socket: PA-GF, high impact		
Lens:	PC, transparent		
Fixing:	Installation mounting for Ø 37 mm (PG29)		
Connection:	Screw terminal max. 2.5 mm ² flex radial or axial laid		
Flash frequency:	0.75 Hz		
Flash energy:	1 Ws		
Life duration:	4 x 10 ⁶ flashes		

🛒 ORDER SPECIFICATIONS:

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	100 mA	20 mA	30 mA
red	802 100 55	802 100 67	802 100 68
yellow	802 300 55	802 300 67	802 300 68

Further colours and voltages on request.

🏠 ACCESSORIES:

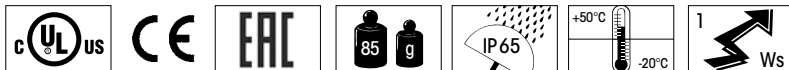
Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Base for tube mounting	975 840 90
Base for base mounting	975 812 02
Tube Ø 25 mm, all anodized aluminium	
100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 40
Anti-twist device	975 815 22
Surface housing IP 65	
for 1 Installation Beacon	975 815 03
for 2 Installation Beacons	975 815 07
for 3 Installation Beacons	975 815 08
for 4 Installation Beacons	975 109 05

📏 TECHNICAL DIAGRAMS:

see page 315



See note on page 347





Tube adaptor as accessory



Accessories

- Light intensive xenon flash
- Vandal-proof construction withstands every mechanical and natural challenge
- High impact polycarbonate lens (up to 20 Joules)

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	75 mm x 66 mm (Protrusion from panel)
Housing:	PC/ABS-Blend Socket: PA fibreglass, high-impact
Lens:	PC transparent Shock resistance 20 Joules according to EN 60079-0
Fixing:	Installation mounting for Ø 37 mm (PG29)
Connection:	Screw terminal max. 2.5 mm ² flex radial or axial laid
Flash frequency:	C. 1 Hz
Flash energy:	2 Ws
Life duration:	4 x 10 ⁶ flashes

ORDER SPECIFICATIONS:

Voltage	12 V DC	24 V DC	115 V AC	230 V AC
Current consumpt.	< 195 mA	125 mA	20 mA	35 mA
red	817 100 54	817 100 55	817 100 67	817 100 68
yellow	817 300 54	817 300 55	817 300 67	817 300 68

Further colours and voltages on request.

ACCESSORIES:

Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Base for tube mounting	975 840 90
Base for base mounting	975 812 02
Tube Ø 25 mm, all anodized aluminium	
100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 40
Anti-twist device	975 815 22
Surface housing IP 65	
for 1 Installation Beacon	975 815 03
for 2 Installation Beacons	975 815 07
for 3 Installation Beacons	975 815 08
for 4 Installation Beacons	975 109 05

TECHNICAL DIAGRAMS:

see page 316

Sizes of Flashing Beacons



See note on page 347





Tube adaptor as accessory



Surface housing (accessory)

- Vandal-proof construction withstands every mechanical and natural challenge
- High impact polycarbonate lens (up to 20 Joules)

Life duration up to 50,000 hrs

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	75 mm x 66 mm (Protrusion from panel)
Housing:	PC/ABS-Blend Socket: PA-GF, high impact
Lens:	PC transparent Shock resistance 20 Joules according to EN 60079-0
Fixing:	Installation mounting for Ø 37 mm (PG29)
Connection:	Screw terminal max. 2.5 mm ² flex radial or axial laid
Blink frequency:	C. 1 Hz

🛒 ORDER SPECIFICATIONS:

Voltage	24 V AC/DC
Current consumption	25 mA
red	816 110 55
yellow	816 310 55

Further colours and voltages on request.

🏠 ACCESSORIES:

Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Base for tube mounting	975 840 90
Base for base mounting	975 812 02
Tube Ø 25 mm, all anodized aluminium	
100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 40
Anti-twist device	975 815 22
Surface housing IP 65	
for 1 Installation Beacon	975 815 03
for 2 Installation Beacons	975 815 07
for 3 Installation Beacons	975 815 08
for 4 Installation Beacons	975 109 05

Accessories see page 116

📐 TECHNICAL DIAGRAMS:

see page 315

Sizes of Flashing Beacons



See note on page 347

