APEM

Q-Series Panel Mount LED Indicators

ENG 2

APEM

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Q-SERIES Panel Mounting LED Indicators

Apem is one of the world's largest manufacturers of professional switches and switch panels.
This has now been complemented with a NEW expanded range of panel mounting LED indicators.

The range comprises of seven different panel cut-out sizes (6mm, 8mm,12mm, 14mm, 16mm, 19mm and 22mm) Three different bezel shapes, prominent, recessed and flush manufactured from high quality Brass and ABS (16mm and 22mm only). Both bezel materials are available plated in Bright Chrome, Black Chrome, Satin Chrome and Gold (16mm and 22mm ABS only). Terminations can be supplied in 2.0/2.8mm Faston/ solder lug, pins or 200mm long wire. IP67 sealing can be achieved as an option.

The LEDs are available in five colour options, standard diffused red, green, yellow, blue and white, plus Bi-colour, Tri-colour and flashing LEDs. A complementary range of super bright, water clear LEDs are also available.

The LED indicators are available with integral resistors to permit direct connection to 6V, 12V, 24V, 28V, 110V and 220V. (Other voltages are available upon request).

To further complement their panel mount LED lighting products, Apem has designed and developed an extensive range of based LED Lamps.

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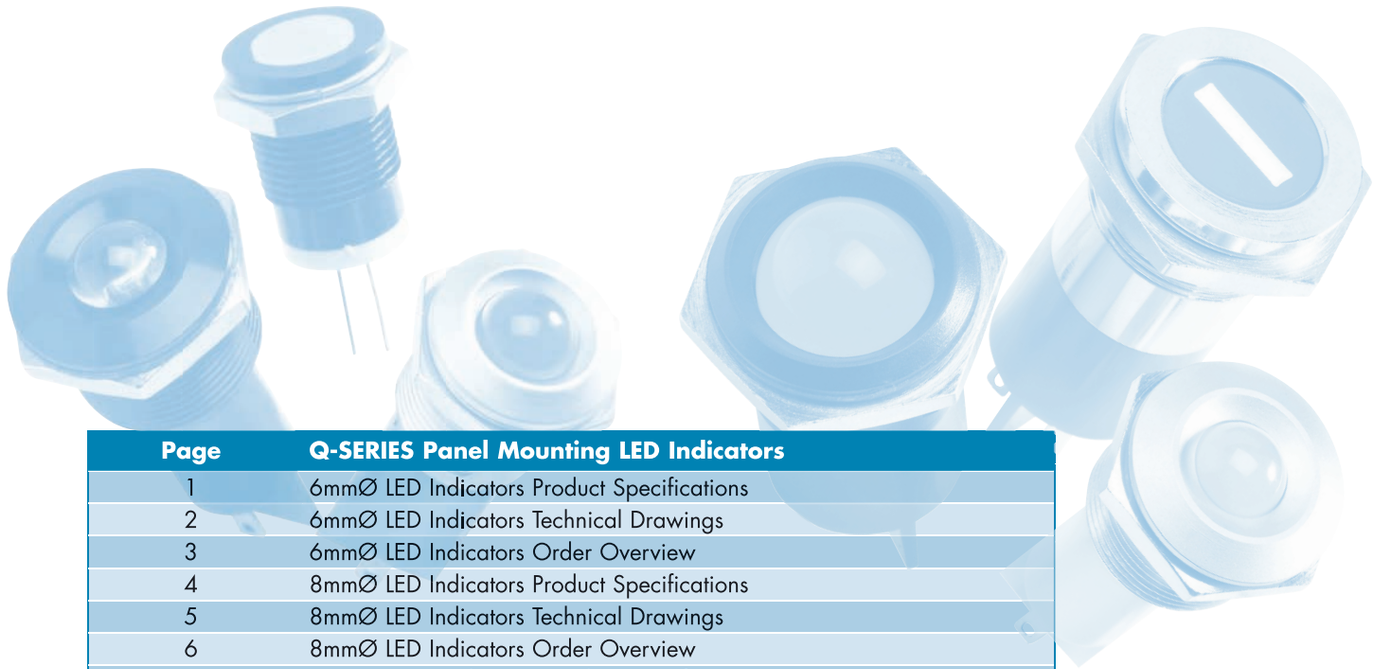

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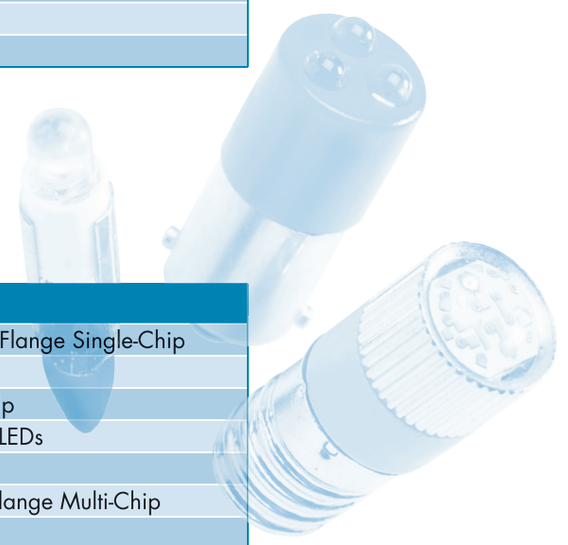

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29	Ba9s Multi-Chip & E10 Multi-Chip
30	T5 Wedge Base Multi-Chip & T5.5 Telephone Slide Multi-Chip

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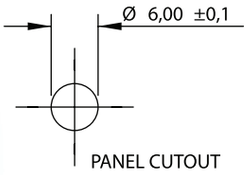
Q-SERIES 6mmØ Panel Mounting LED Indicator
Product Specification

Distinctive Features and Specifications

- 6mm panel mounting LED indicator
- 3mm coloured diffused epoxy lens or 3mm water clear super bright LEDs
- Bright chrome, black chrome or satin grey bezel finish
- Prominent, recessed and flush bezel styles
- 2VDC – 28VDC
- (2.0 x 0.5) terminals, pins or (200mm long) wire terminations
- IP67 sealing option (EN60529)
- Supplied with fixing nut and spring washer

NB: UL Recognised Component



TECHNICAL SPECIFICATIONS

Switch Voltage	**Operating Voltage Vop**	**Operating Current Iop**
	(Min to Max)	(Typical All Types)
2VDC (No Resistor)	1.8 to 2.5VDC	20mA
12VDC	10.8 to 13.2VDC	20mA
24VDC	21.6 to 26.4VDC	20mA
28VDC	25.2 to 30.8VDC	20mA
Intensity (Typical) at Iop Standard	**Prominent and Recessed**	**Flush**
	(all voltages)	(all voltages)
HE Red	40mcd	10mcd
Green	40mcd	8mcd
Yellow	30mcd	8mcd
Blue	65mcd	8mcd
White	100mcd	15mcd
Bi-colour (Typical) (Red/Green)	20/15mcd	10/8mcd
The colour is changed by reversing the polarity of the supply voltage.		
Super Bright	**Prominent and Recessed**	**Flush**
	(all voltages)	(all voltages)
HE Red	3,500mcd	500mcd
Green	2,000mcd	350mcd
Yellow	900mcd	140mcd
Blue	550mcd	200mcd
White	600mcd	150mcd
Luminous intensity will be reduced with lower operating current.		

Max Reverse Voltage: 5V
Viewing Angle: 100° (dependant on model)
Life Expectancy: 100,000 hours
Operating Temperature Range: –40 to +85°C

Note: The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy.
The company reserves the right to change specifications without notice.

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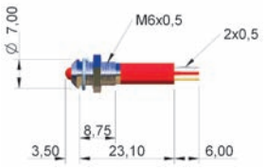
Q-SERIES 6mmØ Panel Mounting LED Indicator
Technical Drawings

PROMINENT BEZEL

SOLDER LUG/FASTONS



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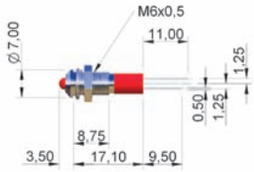

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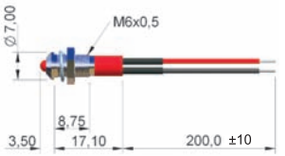

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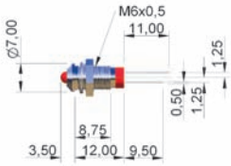

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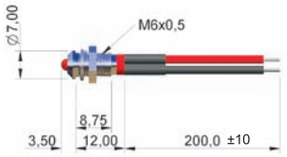
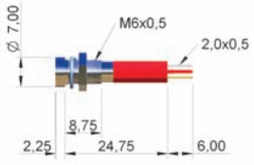


RECESSED BEZEL

SOLDER LUG/FASTONS



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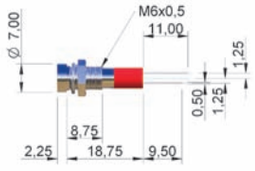

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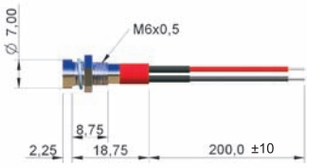

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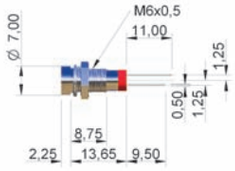

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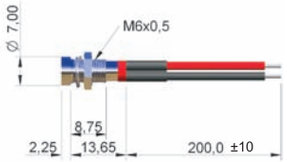
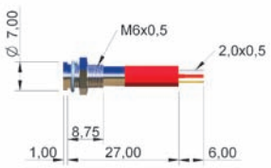


FLUSH BEZEL

SOLDER LUG/FASTONS



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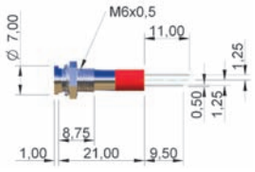

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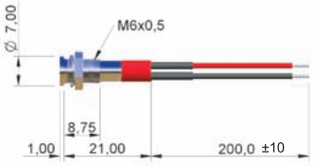

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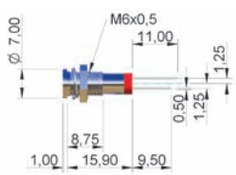

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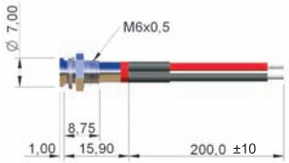

Note: The company reserves the right to change specifications without notice.

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Q-SERIES 6mmØ Panel Mounting LED Indicator
Order Overview

STANDARD OPTIONS

The Q6 Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.

Q	6	P	1	B	XX	G	12	E
SERIES	**MOUNTING HOLE**	**BEZEL STYLE**	**TERMINALS**	**BEZEL FINISH**	**TYPE OF ILLUMINATION**	**LED COLOUR**	**VOLTAGE**	**SEALING**
Q	6 = Ø6mm	P = Prominent	1 = Solder Lug/ Fastons (2.0 x 0.5)	C = Bright Chrome	XX = Fixed Light	R = Red	02 = 2VDC	(Blank) = Unsealed
		R = Recessed	2 = Pins	B = Black Chrome	KK = Flashing Light	G = Green	06 = 6VDC	E = IP67
		F = Flush	3 = Wires	G = Satin Grey	YY = Bi-colour	Y = Yellow	12 = 12VDC	
			6 = Short body Pins			B = Blue	12A = 12VAC/DC	
			7 = Short body Wires			W = White	24 = 24VDC	
							24A = 24VAC/DC	
						SR = Super Bright Red	28 = 28VDC	
						SG = Super Bright Green	28A = 28VAC/DC	
						SY = Super Bright Yellow		
						SB = Super Bright Blue		
						SW = Super Bright White		
						RG = Red/Green		
						RY = Red/Yellow		
						GY = Green/Yellow		

Example Q6P1BXXG12E
Ø6mm, prominent bezel, solder lug terminals, black chrome finish, fixed light, green, 12volt DC LED, IP67 Panel Seal

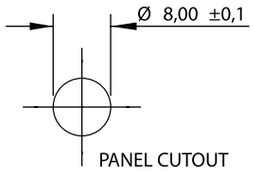
- Gold Faston terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM
- For LEDs with alternate voltages consult APEM
- Bi-colour LEDs, by connecting the gold Faston (+) one colour is produced, by reversing the supply voltage another colour is produced – Bi-colours are available up to 28VDC
- Take care when soldering to the Faston terminals
- Short body options are only available up to 24VDC
- Maximum panel thickness 7mm
- For behind panel epoxy sealed options please contact APEM

Q-SERIES 8mmØ Panel Mounting LED Indicator
Product Specification

Distinctive Features and Specifications

- 8mm panel mounting LED indicator
- 5mm coloured diffused epoxy lens or 5mm water clear super bright LEDs
- Bright chrome, black chrome or satin grey bezel finish
- Prominent, recessed and flush bezel styles
- 2VDC – 220VAC
- (2.8 x 0.8) terminals, pins or (200mm long) wire terminations
- IP67 sealing option (EN60529)
- Supplied with fixing nut and spring washer

NB: UL Recognised Component



TECHNICAL SPECIFICATIONS

Switch Voltage	**Operating Voltage Vop**	**Operating Current Iop**
	(Min to Max)	(Typical All Types)
2VDC (No Resistor)	1.8 to 2.5VDC	20mA
12VDC	10.8 to 13.2VDC	20mA
24VDC	21.6 to 26.4VDC	20mA
28VDC	25.2 to 30.8VDC	20mA
110VAC	99 to 121VDC	6mA
230VAC	207 to 253VDC	3mA
Intensity (Typical) at Iop Standard	**Prominent and Recessed**	**Flush**
	(all voltages)	(all voltages)
HE Red	50mcd	10mcd
Green	40mcd	8mcd
Yellow	40mcd	6mcd
Blue	90mcd	4mcd
White	150mcd	25mcd
Bi-colour (Typical) (Red/Green)	20/10mcd	10/8mcd
Tri-colour (Typical) (Red/Green/Yellow)	20/10/10mcd	10/8/6mcd
Bi-colour - The colour is changed by reversing the polarity of the supply voltage.		
Tri-colour - The indicator has red and green LEDs, when both connected yellow is produced.		
Super Bright	**Prominent and Recessed**	**Flush**
	(all voltages)	(all voltages)
HE Red	10,000mcd	600mcd
Green	4,500mcd	350mcd
Yellow	2,100mcd	140mcd
Blue	1,400mcd	200mcd
White	2,000mcd	150mcd
Luminous intensity will be reduced with lower operating current.		

Max Reverse Voltage: 5V
Viewing Angle: 100° (dependant on model)
Life Expectancy: 100,000 hours
Operating Temperature Range: –40 to +85°C

Note: The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy.
The company reserves the right to change specifications without notice.

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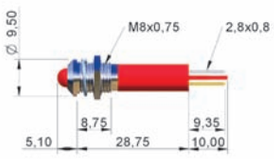
Q-SERIES 8mmØ Panel Mounting LED Indicator
Technical Drawings

PROMINENT BEZEL

SOLDER LUG/FASTONS



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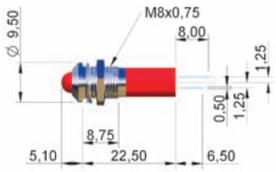

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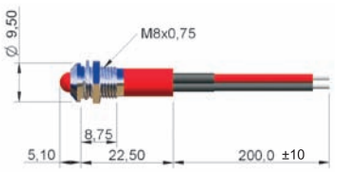

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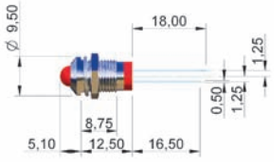

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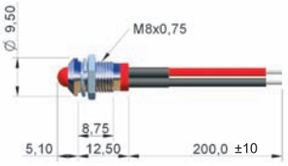
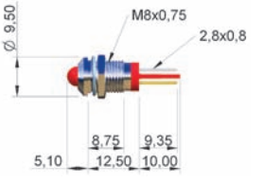
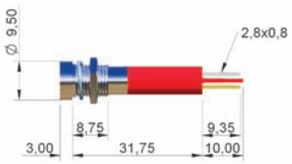


SHORT BODY SOLDER LUG/FASTONS



RECESSED BEZEL

SOLDER LUG/FASTONS



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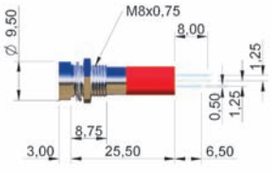

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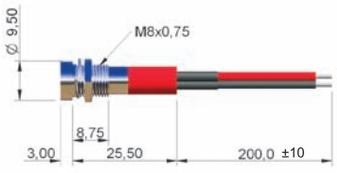

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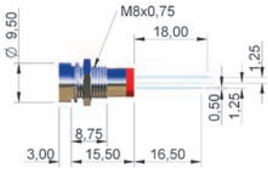

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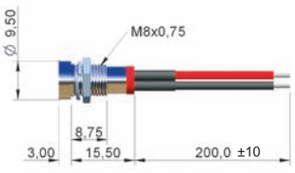
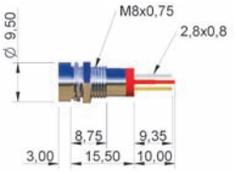
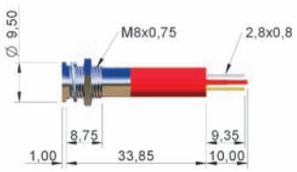


SHORT BODY SOLDER LUG/FASTONS



FLUSH BEZEL

SOLDER LUG/FASTONS



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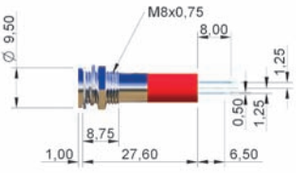

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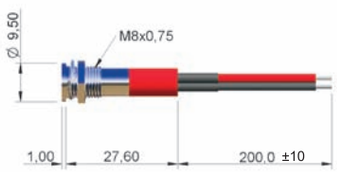

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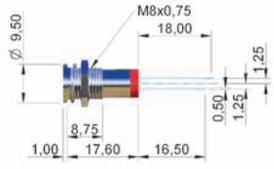
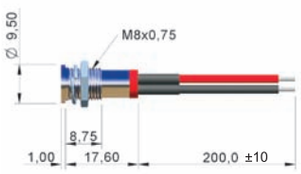
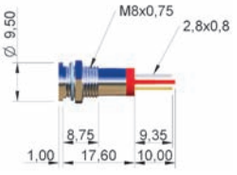


SHORT BODY WIRES



SHORT BODY SOLDER LUG/FASTONS



Note: The company reserves the right to change specifications without notice.

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04681 Q-Series blue IFC.indd 5 13/12/07 15:14:43

Q-SERIES 8mmØ Panel Mounting LED Indicator
Order Overview

STANDARD OPTIONS

The Q8 Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.

Q	8	P	8	G	XX	Y	12	E
SERIES	**MOUNTING HOLE**	**BEZEL STYLE**	**TERMINALS**	**BEZEL FINISH**	**TYPE OF ILLUMINATION**	**LED COLOUR**	**VOLTAGE**	**SEALING**
Q	8 = Ø8mm	P = Prominent	1 = Solder Lug/ Fastons (2.8 x 0.8)	C = Bright Chrome	XX = Fixed Light	R = Red	02 = 2VDC	(Blank) = Unsealed
		R = Recessed	2 = Pins	B = Black Chrome	KK = Flashing Light (only up to 28VDC)	G = Green	06 = 6VDC	E = IP67
		F = Flush	3 = Wires	G = Satin Grey	YY = Bi-colour	Y = Yellow	12 = 12VDC	
			6 = Short body Pins		ZZ = Tri-colour	B = Blue	12A = 12VAC/DC	
			7 = Short body Wires			W = White	24 = 24VDC	
			8 = Short body Solder lug/ faston				24A = 24VAC/DC	
						SR = Super Bright Red	28 = 28VDC	
						SG = Super Bright Green	28A = 28VAC/DC	
						SY = Super Bright Yellow	110 = 110VAC	
						SB = Super Bright Blue	220 = 220VAC	
						SW = Super Bright White		
						RG = Red/Green		
						RY = Red/Yellow		
						GY = Green/Yellow		
						RYG = Red/Yellow/Green		

Example Q8P8GXXY02E
Ø8mm, prominent bezel, short body solder lug terminals, satin grey finish, fixed light, yellow, 2volt DC LED, IP67 Panel Seal

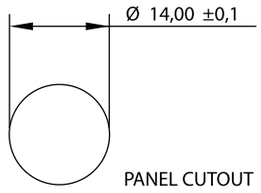
- Gold Faston terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM
- For LEDs with alternate voltages consult APEM
- Bi-colour LEDs, by connecting the gold Faston (+) one colour is produced, by reversing the supply voltage another colour is produced – Bi-colours are available up to 28VDC
- Take care when soldering to the Faston terminals
- Short body pins and wires are only available up to 28VDC
- Short body Fastons are only available without integral resistor (2VDC)
- The Tri-colour LED has red and green LEDs when both are connected yellow is produced
- Standard Tri-colour Faston terminals are two Anodes (+) and one Cathode (-)
- Tri-colour wires are one red (+) and one green (+) Anode and one black (-) Cathode
- Tri-colour pins are centre (–) cathode, shortest (+) anode pin green, longest (+) anode pin red
- Maximum panel thickness 7mm
- For behind panel epoxy sealed options please consult Apem

Q-SERIES 14mmØ Panel Mounting LED Indicator
Product Specification

Distinctive Features and Specifications

- 14mm panel mounting LED indicator
- 10mm coloured diffused epoxy lens or 10mm water clear super bright LEDs
- Bright chrome, black chrome or satin grey bezel finish
- Prominent and flush bezel styles
- 2VDC – 220VAC
- (2.8 x 0.8) terminals, pins or (200mm long) wire terminations
- IP67 sealing option (EN60529)
- Supplied with fixing nut and spring washer

NB: UL Recognised Component



TECHNICAL SPECIFICATIONS

Switch Voltage	**Operating Voltage Vop**	**Operating Current Iop**
	(Min to Max)	(Typical All Types)
2VDC (No Resistor)	1.8 to 2.5VDC	20mA
12VDC	10.8 to 13.2VDC	20mA
24VDC	21.6 to 26.4VDC	20mA
28VDC	25.2 to 30.8VDC	20mA
110VAC	99 to 121VDC	6mA
230VAC	207 to 253VDC	3mA
Intensity (Typical) at Iop Standard	**Prominent**	**Flush**
	(all voltages)	(all voltages)
HE Red	80mcd	10mcd
Green	40mcd	5mcd
Yellow	30mcd	4mcd
Blue	280mcd	10mcd
White	350mcd	20mcd
Bi-colour (Typical) (Red/Green)	80/50mcd	14/10mcd
Tri-colour (Typical) (Red/Green/Yellow)	80/50/50mcd	14/10/10mcd
Bi-colour - The colour is changed by reversing the polarity of the supply voltage.		
Tri-colour - The indicator has red and green LEDs, when both connected yellow is produced.		
Super Bright	**Prominent**	**Flush**
	(all voltages)	(all voltages)
HE Red	7,500mcd	2000mcd
Green	4,100mcd	250mcd
Yellow	2,500mcd	350mcd
Blue	1,300mcd	300mcd
White	1,900mcd	200mcd
Luminous intensity will be reduced with lower operating current.		

Max Reverse Voltage: 5V
Viewing Angle: 100° (dependant on model)
Life Expectancy: 100,000 hours
Operating Temperature Range: –40 to +85°C

Note: The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy.
The company reserves the right to change specifications without notice.

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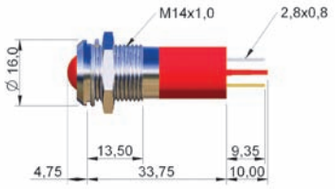
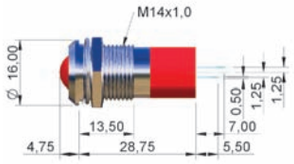
Q-SERIES 14mmØ Panel Mounting LED Indicator
Technical Drawings

PROMINENT BEZEL

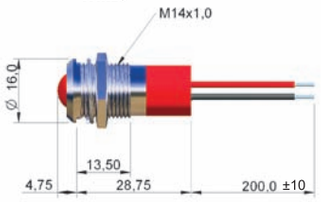
SOLDER LUG/FASTONS



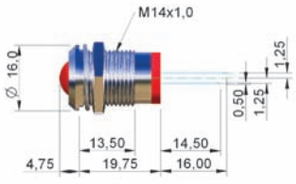
PINS



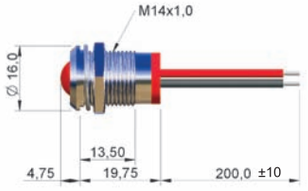
WIRES



SHORT BODY PINS

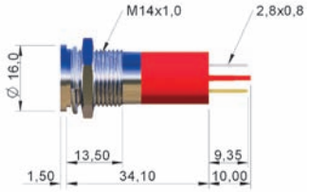


SHORT BODY WIRES

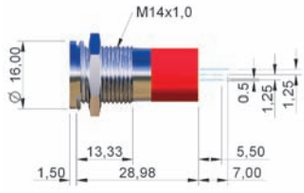


FLUSH BEZEL

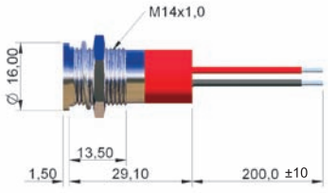
SOLDER LUG/FASTONS



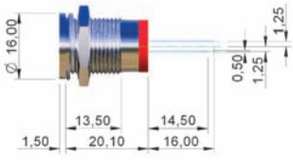
PINS



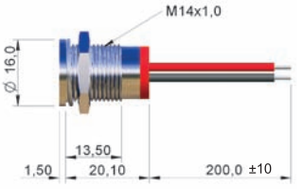
WIRES



SHORT BODY PINS



SHORT BODY WIRES



CUSTOM ENGRAVING

Custom engraving available on flush bezel versions, contact APEM for further details.

Note: The company reserves the right to change specifications without notice.

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Q-SERIES 14mmØ Panel Mounting LED Indicator
Order Overview

STANDARD OPTIONS

The Q14 Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.

Q	14	P	1	C	XX	B	28	E
SERIES	**MOUNTING HOLE**	**BEZEL STYLE**	**TERMINALS**	**BEZEL FINISH**	**TYPE OF ILLUMINATION**	**LED COLOUR**	**VOLTAGE**	**SEALING**
Q	14 = Ø14mm	P = Prominent	1 = Solder Lug/ Fastons (2.8 x 0.8)	C = Bright Chrome	XX = Fixed Light	R = Red	02 = 2VDC	(Blank) = Unsealed
		F = Flush	2 = Pins	B = Black Chrome	KK = Flashing Light (only up to 28VDC)	G = Green	06 = 6VDC	E = IP67
			3 = Wires	G = Satin Grey	YY = Bi-colour	Y = Yellow	12 = 12VDC	
			6 = Short body Pins		ZZ = Tri-colour	B = Blue	12A = 12VAC/DC	
			7 = Short body Wires			W = White	24 = 24VDC	
							24A = 24VAC/DC	
						SR = Super Bright Red	28 = 28VDC	
						SG = Super Bright Green	28A = 28VAC/DC	
						SY = Super Bright Yellow	110 = 110VAC	
						SB = Super Bright Blue	220 = 220VAC	
						SW = Super Bright White		
						RG = Red/Green		
						RY = Red/Yellow		
						GY = Green/Yellow		
						RYG = Red/Yellow/Green		

Example Q14P1CXXB28E
Ø14mm, prominent bezel, solder lug terminals, bright chrome finish, fixed light, blue, 28volt DC LED, IP67 Panel Seal

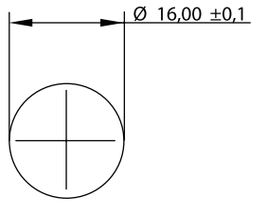
- Gold Faston terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM
- For LEDs with alternate voltages consult APEM
- Bicolour LEDs, by connecting the gold Faston (+) one colour is produced, by reversing the supply voltage another colour is produced – Bi-colours are available up to 28VDC
- Take care when soldering to the Faston terminals
- Short body pins and wires are only available up to 28VDC
- The Tri-colour LED has red and green LEDs when both are connected yellow is produced
- Standard Tri-colour Faston terminals are two Anodes (+) and one Cathode (-)
- Tri-colour wires are one red (+) and one green (+) Anode and one black (-) Cathode
- Tri-colour pins are centre (–) cathode, shortest (+) anode pin green, longest (+) anode pin red
- Maximum panel thickness 11mm
- For behind panel epoxy sealed options please consult Apem

Q-SERIES 16mmØ Panel Mounting LED Indicator
Product Specification

Distinctive Features and Specifications

- 16mm panel mounting LED indicator
- 10mm coloured diffused epoxy lens or 10mm water clear super bright LEDs
- Bright chrome, black chrome, satin grey, plated brass bezel finish
- Bright chrome, satin grey, gold and black ABS plastic bezel finish
- Prominent and flush bezel styles
- 2VDC – 220VAC
- (2.8 x 0.8) terminals, pins or (200mm long) wire terminations
- IP67 sealing option (EN60529)
- Supplied with fixing nut and spring washer

NB: UL Recognised Component



PANEL CUTOUT

TECHNICAL SPECIFICATIONS

Switch Voltage	**Operating Voltage Vop**	**Operating Current Iop**
	(Min to Max)	(Typical All Types)
2VDC (No Resistor)	1.8 to 2.5VDC	20mA
12VDC	10.8 to 13.2VDC	20mA
24VDC	21.6 to 26.4VDC	20mA
28VDC	25.2 to 30.8VDC	20mA
110VAC	99 to 121VDC	6mA
230VAC	207 to 253VDC	3mA
Intensity (Typical) at Iop Standard	**Prominent**	**Flush**
	(all voltages)	(all voltages)
HE Red	80mcd	10mcd
Green	40mcd	5mcd
Yellow	30mcd	4mcd
Blue	280mcd	10mcd
White	350mcd	20mcd
Bi-colour (Typical) (Red/Green)	80/50mcd	14/10mcd
Tri-colour (Typical) (Red/Green/Yellow)	80/50/50mcd	14/10/10mcd
Bi-colour - The colour is changed by reversing the polarity of the supply voltage.		
Tri-colour - The indicator has red and green LEDs, when both connected yellow is produced.		
Super Bright	**Prominent**	**Flush**
	(all voltages)	(all voltages)
HE Red	7,500mcd	2000mcd
Green	4,100mcd	250mcd
Yellow	2,500mcd	350mcd
Blue	1,300mcd	300mcd
White	1,900mcd	200mcd
Luminous intensity will be reduced with lower operating current.		

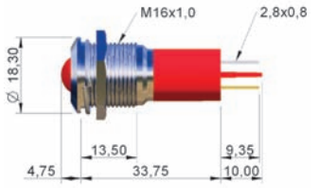
Max Reverse Voltage: 5V
Viewing Angle: 100° (dependant on model)
Life Expectancy: 100,000 hours
Operating Temperature Range: –40 to +85°C

Note: The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy.
The company reserves the right to change specifications without notice.

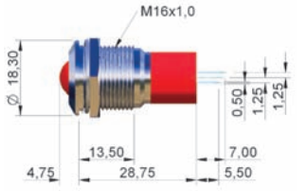
Q-SERIES 16mmØ Panel Mounting LED Indicator
Technical Drawings

PROMINENT BEZEL

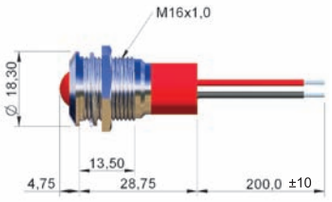
SOLDER LUG/FASTONS



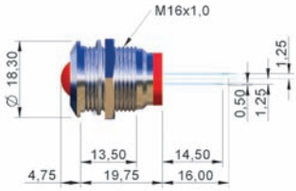
PINS



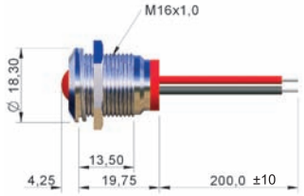
WIRES



SHORT BODY PINS

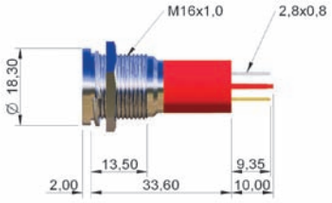


SHORT BODY WIRES

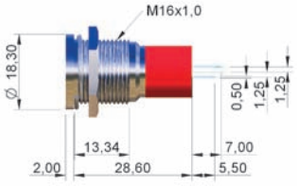


FLUSH BEZEL

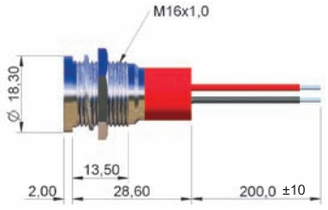
SOLDER LUG/FASTONS



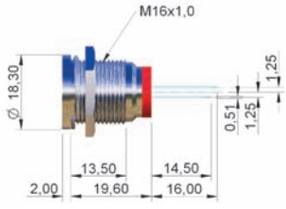
PINS



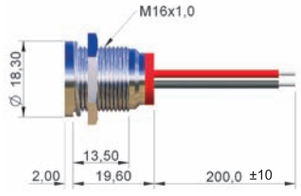
WIRES



SHORT BODY PINS



SHORT BODY WIRES



Note: The company reserves the right to change specifications without notice.

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04681 Q-Series blue IFC.indd 14 13/12/07 15:15:55

Q-SERIES 16mmØ Panel Mounting LED Indicator
Ordering Overview

STANDARD OPTIONS

The Q16 Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.

Q	16	F	1	G	XX	Y	24	E
SERIES	**MOUNTING HOLE**	**BEZEL STYLE**	**TERMINALS**	**BEZEL FINISH**	**TYPE OF ILLUMINATION**	**LED COLOUR**	**VOLTAGE**	**SEALING**
Q	16 = Ø16mm	Metal	1 = Solder Lug/ Fastons (2.8 x 0.8)	Metal	XX = Fixed Light	R = Red	02 = 2VDC	(Blank) = Unsealed
		P = Prominent	2 = Pins	C = Bright Chrome	KK = Flashing Light (only up to 28VDC)	G = Green	06 = 6VDC	E = IP67
		F = Flush	3 = Wires	B = Black Chrome	YY = Bi-colour	Y = Yellow	12 = 12VDC	
		Plastic	6 = Short body Pins	G = Satin Grey	ZZ = Tri-colour	B = Blue	12A = 12VAC/DC	
		PP = Prominent	7 = Short body Wires	Plastic		W = White	24 = 24VDC	
		FP = Flush		CP = Bright Chrome			24A = 24VAC/DC	
				BP = Black		SR = Super Bright Red	28 = 28VDC	
				GP = Satin Grey		SG = Super Bright Green	28A = 28VAC/DC	
				AU = Gold		SY = Super Bright Yellow	110 = 110VAC	
						SB = Super Bright Blue	220 = 220VAC	
						SW = Super Bright White		
						RG = Red/Green		
						RY = Red/Yellow		
						GY = Green/Yellow		
						RYG = Red/Yellow/Green		

Example Q16F1GXXY24E
Ø16mm, flush metal bezel, solder lug terminals, satin grey finish, fixed light, yellow, 24volt DC LED, IP67 Panel Seal

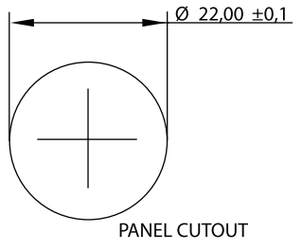
- Gold Faston terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM
- For LEDs with alternate voltages consult APEM
- Bi-colour LEDs, by connecting the gold Faston (+) one colour is produced, by reversing the supply voltage another colour is produced – Bi-colours are available up to 28VDC
- Take care when soldering to the Faston terminals
- Short body pins and wires are only available up to 28VDC
- The Tri-colour LED has red and green LEDs when both are connected yellow is produced
- Standard Tri-colour Faston terminals are two Anodes (+) and one Cathode (-)
- Tri-colour wires are one red (+) and one green (+) Anode and one black (-) Cathode
- Tri-colour pins are centre (–) cathode, shortest (+) anode pin green, longest (+) anode pin red
- Maximum panel thickness 11mm
- For behind panel epoxy sealing option please consult APEM

Q-SERIES 22mmØ Panel Mounting LED Indicator
Product Specification

Distinctive Features and Specifications

- 22mm panel mounting LED indicator
- 18mm coloured diffused epoxy lens
- Bright chrome, black chrome and satin grey, plated brass bezel finish
- Bright chrome, satin grey, gold and black ABS plastic bezel finish
- Prominent and flush bezel styles
- 5.5VDC – 220VAC
- (2.8 x 0.8) terminals, pins or (200mm long) wire terminations
- IP67 sealing option (EN60529)
- Supplied with fixing nut and spring washer

NB: UL Recognised Component



PANEL CUTOUT

TECHNICAL SPECIFICATIONS

Switch Voltage	**Operating Voltage Vop**	**Operating Current Iop**
	(Min to Max)	(Typical All Types)
5.5VDC (No Resistor)	5.0 to 6.0VDC	20mA
12VDC	10.8 to 13.2VDC	20mA
24VDC	21.6 to 26.4VDC	20mA
28VDC	25.2 to 30.8VDC	20mA
110VAC	99 to 121VDC	6mA
230VAC	207 to 253VDC	3mA
Intensity (Typical) at Iop Standard	**Prominent**	**Flush**
	(all voltages)	(all voltages)
HE Red	80mcd	70mcd
Green	95mcd	70mcd
Yellow	60mcd	60mcd
Blue	120mcd	100mcd
White	350mcd	200mcd
Bi-colour (Typical) (Red/Green)	80/50mcd	80/50mcd
Tri-colour (Typical) (Red/Green/Yellow)	80/50/50mcd	80/50/50mcd
Bi-colour - The colour is changed by reversing the polarity of the supply voltage.		
Tri-colour - The indicator has red and green LEDs, when both connected yellow is produced.		
Luminous intensity will be reduced with lower operating current.		
For super bright versions please consult APEM		

Max Reverse Voltage: 5V
Viewing Angle: 100° (dependant on model)
Life Expectancy: 100,000 hours
Operating Temperature Range: –40 to +85°C

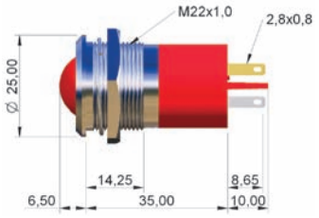
Note: The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy.
The company reserves the right to change specifications without notice.

04681 Q-Series blue IFC.indd 19 13/12/07 15:16:24

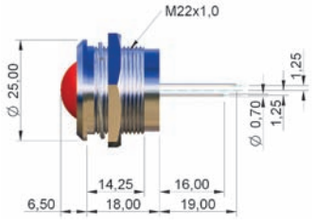
Q-SERIES 22mmØ Panel Mounting LED Indicator
Technical Drawings

PROMINENT BEZEL

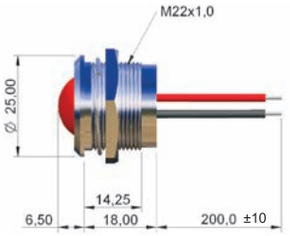
SOLDER LUG/FASTONS



PINS (Epoxy Filled)

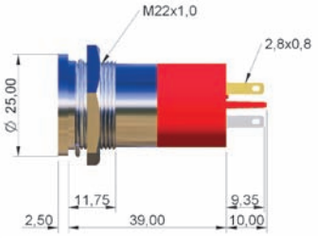


WIRES (Epoxy Filled)



FLUSH BEZEL

SOLDER LUG/FASTONS



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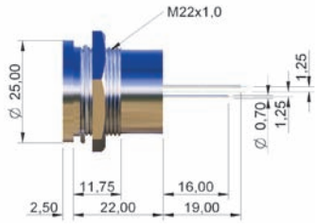
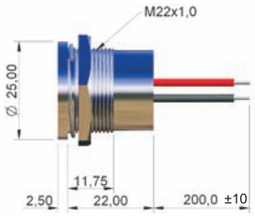


WIRES (Epoxy Filled)



Note: The company reserves the right to change specifications without notice.

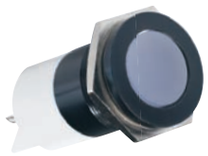
Q-SERIES 22mmØ Panel Mounting LED Indicator
Ordering Overview

STANDARD OPTIONS

The Q22 Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.

Q	22	F	1	BP	XX	W	28	E	DL
SERIES	**MOUNTING HOLE**	**BEZEL STYLE**	**TERMINALS**	**BEZEL FINISH**	**TYPE OF ILLUMINATION**	**LED COLOUR**	**VOLTAGE**	**SEALING**	**OPTIONS**
Q	22 = Ø22mm	Metal	1 = Solder Lugs/Fastons (2.8 x 0.8)	Metal	XX = Fixed Light	R = Red	05 = 5VDC	(Blank) = Unsealed	DL = Daisy Chain
		P = Prominent	4 = Pins	C = Bright Chrome	KK = Flashing Light (only up to 28VDC)	G = Green	12 = 12VDC	E = IP67	LT = Lamp Test
		F = Flush	5 = Wires	B = Black Chrome	YY = Bi-colour	Y = Yellow	12A = 12VAC/DC		
		Plastic		G = Satin Grey	ZZ = Tri-colour	B = Blue	24 = 24VDC		
		PP = Prominent		Plastic		W = White	24A = 24VAC/DC		
		FP = Flush		CP = Bright Chrome			28 = 28VDC		
				BP = Black		RG = Red/Green	28A = 28VAC/DC		
				GP = Satin Grey		RY = Red/Yellow	110 = 110VAC		
				AU = Gold		GY = Green/Yellow	220 = 220VAC		
						RYG = Red/Yellow/ Green			

Example Q22F1BPXXW28EDL
Ø22mm, flush bezel, solder lug terminals, black plastic finish, fixed light, white, 28volt DC LED, IP67 Panel Seal, Daisy Chain



- Gold Faston terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM
- For LEDs with alternate voltages consult APEM
- Bi-colour LEDs, by connecting the gold Faston (+) one colour is produced, by reversing the supply voltage another colour is produced – Bi-colours are available up to 28VDC
- Take care when soldering to the Faston terminals
- Pin and Wire options are epoxy sealed at the rear of the bezels
- The Tri-colour LED has red and green LEDs when both are connected yellow is produced
- Standard Tri-colour Faston terminals are two Anodes (+) and one Cathode (-)
- Tri-colour wires are one red (+) and one green (+) Anode and one black (-) Cathode
- Tri-colour pins are centre (–) cathode, shortest (+) anode pin green, longest (+) anode pin red
- Maximum panel thickness: Prominent = 12mm, Flush = 10mm
- Plastic bezel material: ABS
- Daisy chaining option - has negative (Cathode) terminals linked (3 x Fastons)
- Lamp test facility option (4 x Faston)