

Q6 series

Ø6 mm panel mount LED indicators



DISTINCTIVE FEATURES

3 mm colored diffused epoxy lens or 3 mm water clear super bright LEDs

Prominent, recessed and flush bezel styles

(2.0 x 0.5) solder lug terminals, pins or (200 mm long) wire terminations, other lengths available on request



ENVIRONMENTAL SPECIFICATIONS

- IP67 sealing option (EN60529)
- Operating & Storage Temperature Range:
Rear plastic body: -30 °C to +65 °C (-22 °F to +149 °F)
Rear epoxy body: -40 °C to +85 °C (-40 °F to +185 °F)



GENERAL SPECIFICATIONS

- Max Reverse Voltage: 5 V
- Viewing Angle: 30–100° (dependant on model)
- Life Expectancy: 100,000 hours
- Torque: 4 cNm (dependent on option)
- Maximum panel thickness 7 mm

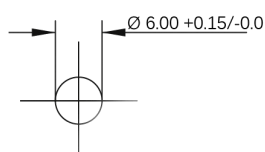
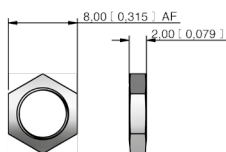


MATERIALS

- Plated brass bezel finished in bright chrome, black chrome or satin grey and moulded polycarbonate rear body



MOUNTING



The company reserves the right to change specifications without notice.

All LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal and subject to variations.



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ELECTRICAL SPECIFICATIONS

STANDARD LED INTENSITY

LED COMPONENT SPECIFICATIONS			
	Prominent and Recessed	Flush	Forward Voltage
HE Red	40 mcd	10 mcd	2.0 V
Green	50 mcd	12 mcd	2.2 V
Yellow	30 mcd	6 mcd	2.1 V
Blue	1,200 mcd	100 mcd	3.8 V
White	1,200 mcd	160 mcd	3.8 V
Orange	60 mcd	10 mcd	2.0 V
Bi-color (Typical) (Red/Green)	20/15 mcd	10/8 mcd	2.0 V/2.2V
Bi-color - The color is changed by reversing the polarity of the supply voltage.			

SUPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS			
	Prominent and Recessed	Flush	Forward Voltage
HE Red	1,000 mcd	700 mcd	2.2 V
Green	1,200 mcd	2,000 mcd	3.5 V
Yellow	2,000 mcd	8,000 mcd	2.3 V
Blue	1,600mcd	200 mcd	3.3 V
White	1,200 mcd	350 mcd	3.3 V
Orange	10,000 mcd	500 mcd	2.2 V

HYPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS			
	Prominent and Recessed	Flush	Forward Voltage
HE Red	3,700 mcd	600 mcd	2.2 V
Green	2,000 mcd	350 mcd	3.2 V
Yellow	1,200 mcd	140 mcd	2.0 V
Orange	4,500 mcd	400 mcd	2.2 V

- The operating voltage must not be exceeded by more than 10% as this will result in reduced life expectancy
- Luminous intensity is measured at 20 ma on a discrete led unless otherwise stated.
- Luminous intensities and color shades of white LEDs may vary within a batch.
- Luminous intensity will be reduced with lower operating current.

Voltage	Operating Voltage	Operating Current
	(Min to Max)	(Typical All Types)
02 (No Resistor)	1.8 to 3.3 VDC	20 mA max*
6 VDC	5.4 to 6.6 VDC	20 mA
12 VDC	10.8 to 13.2 VDC	20 mA
24 VDC	21.6 to 26.4 VDC	20 mA
28 VDC	25.2 to 30.8 VDC	20 mA

* Customer to supply resistor for desired operating current.



BUILD YOUR PART NUMBER

Q				
SERIES	MOUNTING HOLE	BEZEL STYLE	TERMINALS	BEZEL FINISH
	6 Ø6 mm	P Prominent R Recessed F Flush	1 Solder Lug/ Fastons (2.0 x 0.5) 2 Pins 3 Wires	4 Rear epoxy Pins 5 Rear epoxy Wires 6 Short body Pins 7 Short body Wires
				C Bright Chrome B Black Chrome G Satin Grey
TYPE OF ILLUMINATION		LED COLOR	VOLTAGE	SEALING
XX Fixed Light KK Flashing Light (12 V – 28 VDC) YY Bi-color	R Red G Green Y Yellow B Blue W White O Orange HR Hyper Bright Red HG Hyper Bright Green HY Hyper Bright Yellow HO Hyper Bright Orange	SR Super Bright Red SG Super Bright Green SY Super Bright Yellow SB Super Bright Blue SW Super Bright White SO Super Bright Orange RG Red/Green RY Red/Yellow GY Green/Yellow	02 no resistor* 06 6V DC 12 12 VDC 12A 12 VAC/DC 24 24 VDC 24A 24 VAC/DC 28 28 VDC 28A 28 VAC/DC * please refer to the forward voltage in electrical specifications	(Blank) Unsealed E IP67



ABOUT THIS SERIES



Notice: please note that not all combinations of above numbers are available.

- Gold faston terminal denotes anode (+), silver terminal denotes cathode (-)
- Standard wire length is 200 mm, 24 AWG UL1061, red wire denotes anode (+), black wire denotes cathode (-) for other wire lengths consult APEM.
- For LEDs with alternative voltages consult APEM

- Bi-color leds, by connecting the gold solder lug (+) one color is produced, by reversing the supply voltage another color is produced – bi-colors are available up to 28 V in DC only.
- Take care when soldering to the faston terminals (recommended solder temperature 300 °C - 3 sec)
- Short body options are only available up to 24 VDC.

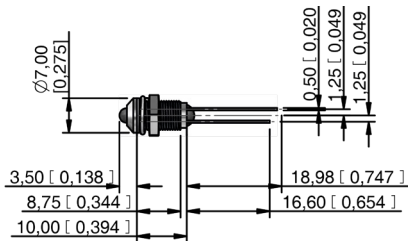
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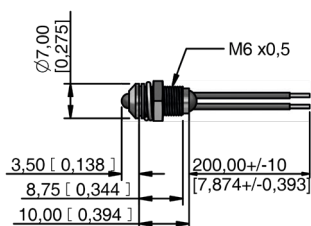
PROMINENT BEZEL



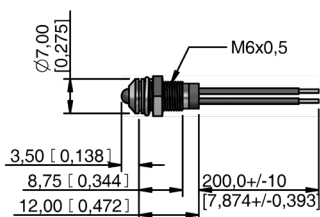
WIRES



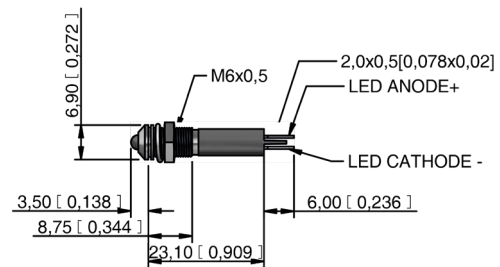
REAR EPOXY WIRES



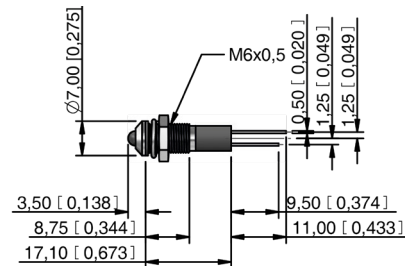
SHORT BODY WIRES



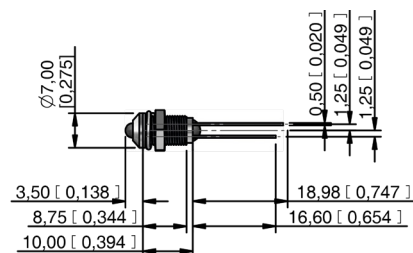
SOLDER LUG/FASTON



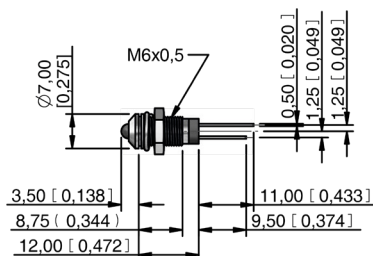
PINS



REAR EPOXY PINS



SHORT BODY PINS



APEN

Technical drawing of a shaft assembly. The drawing shows a shaft with a diameter of $\varnothing 7.00$ [0,275]. The shaft is secured with a nut and a washer. The dimensions and tolerances are as follows:

- Shaft diameter: $\varnothing 7.00$ [0,275]
- Shaft length: 200.0 ± 10 [7,874 / -0,393]
- Distance from the end of the shaft to the center of the nut: 1.00 [0,039]
- Distance from the end of the shaft to the center of the washer: 8.75 [0,344]
- Distance from the end of the shaft to the center of the shaft: 21.00 [0,827]
- Thread specification: M6x0,5

Technical drawing of a shaft with dimensions and tolerances:

- Overall length: 200.0+/-10 [7,874+/-0,393]
- Step diameter: Ø7.00 [0,275]
- Thread: M6 x0,5
- Distance from step to end: 13.90 [0,547]
- Distance from step to end: 8.75 [0,344]
- Distance from step to end: 1.00 [0,039]

Technical drawing of a shaft assembly. The drawing shows a shaft with a diameter of $\varnothing 7.00$ [0.275] and a length of 200.0 ± 10 [7.874 ± 0.393]. The shaft is secured with a nut and washer, with a torque specification of M6x0,5. The dimensions and tolerances are as follows:

- Shaft diameter: $\varnothing 7.00$ [0.275]
- Shaft length: 200.0 ± 10 [7.874 ± 0.393]
- Dimension 1: 1.00 [0.039]
- Dimension 2: 8.75 0.344
- Dimension 3: 15.90 [0.626]
- Nut and washer specification: M6x0,5

Technical drawing of the LED module showing dimensions and labels:

- Overall length: $27,00 [1,063]$
- Distance from mounting base to LED chip: $6,90 [0,272]$
- LED chip size: $2,0 \times 0,5 [0,078 \times 0,02]$
- LED ANODE+
- LED CATHODE -
- Mounting base diameter: $M6 \times 0,5$
- Distance from mounting base to LED chip: $1,00 [0,039]$
- Distance from mounting base to LED chip: $8,75 [0,344]$
- Distance from LED chip to LED package: $6,00 [0,236]$

Technical drawing of a shaft assembly. The drawing shows a shaft with a central section of diameter $\varnothing 7.00$ [0.275]. A threaded section is labeled M6x0,5. Dimensions are given in mm and inches in brackets. Key dimensions include:

- Overall length: 21,00 [0,827]
- Distance from left end to start of threaded section: 1,00 [0,039]
- Distance from left end to center of threaded section: 8,75 [0,344]
- Distance from left end to end of threaded section: 9,50 [0,374]
- Distance from right end to end of threaded section: 11,00 [0,433]
- Distance from right end to start of threaded section: 1,25 [0,049]
- Distance from right end to center of threaded section: 0,50 [0,020]
- Distance from right end to end of threaded section: 1,25 [0,049]

Technical drawing of a Tee fitting, showing dimensions in inches [millimeters].

Dimensions (Inches [Millimeters]):

- Overall Length: 13.90 [0.547]
- Flange Thickness: 1.00 [0.039]
- Flange Outer Diameter: Ø7.00 [0.275]
- Flange Inner Diameter: 6.50 [0.256]
- Flange to Thread Distance: 8.75 [0.344]
- Thread Length: 1.25 [0.049]
- Thread Pitch: 0.50 [0.020]
- Thread to End Distance: 2.50 [0.098]
- End to End Distance: 16.60 [0.654]
- End to End Distance (including flange): 18.10 [0.713]

Thread Specification: M6 x 0.5

Technical drawing of a shaft assembly. The drawing shows a shaft with a central section labeled "M6x0,5". Dimensions are provided in millimeters (mm) and inches (in) in brackets. The dimensions are as follows:

- Overall length: 15.90 [0.626]
- Distance from left end to the start of the M6x0,5 section: 8.75 [0.344]
- Distance from the end of the M6x0,5 section to the right end: 11.00 [0.433]
- Distance from the right end to the start of the last step: 9.50 [0.374]
- Distance from the start of the last step to the right end: 1.25 [0.049]
- Distance from the start of the last step to the center of the M6x0,5 section: 1.25 [0.049]
- Distance from the center of the M6x0,5 section to the left end: 0.50 [0.020]
- Distance from the center of the M6x0,5 section to the right end: 0.50 [0.020]
- Overall diameter: $\varnothing 7.00 [0.275]$

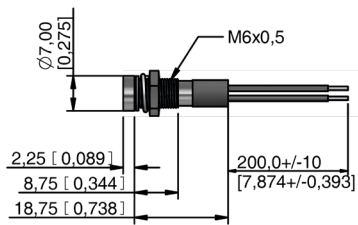
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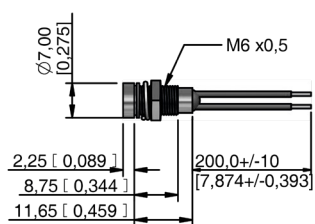
RECESSED BEZEL



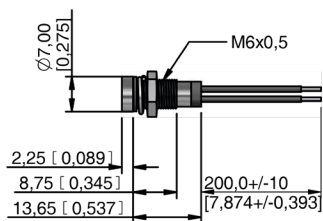
WIRES



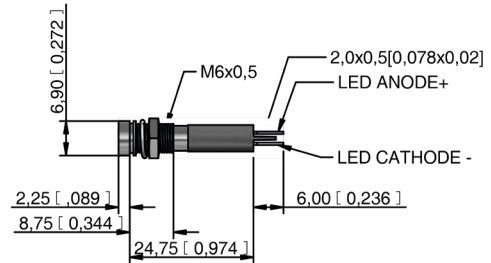
REAR EPOXY WIRES



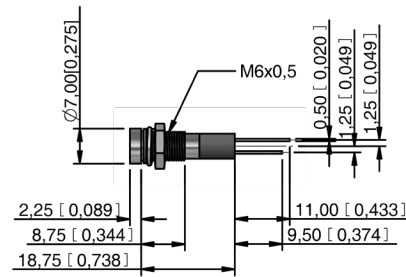
SHORT BODY WIRES



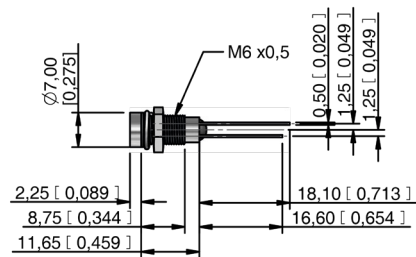
SOLDER LUG/FASTON



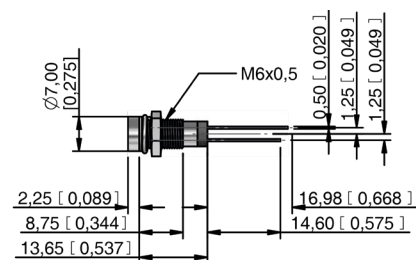
PINS



REAR EPOXY PINS



SHORT BODY PINS





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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