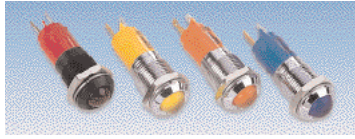## 10mm, Astroled with Integral Resistor
24V dc

EBT

Total L behind bezel = 42, Bezel dia = 16,
Thread = M14 1,
Mounting hole dia. = 14.5,
Tab connections = 2.8 0.8

A range of ultra-high brightness, panel mounting LED indicators with integral resistor to permit direct connection to 24V dc supplies. The Astroleds achieve their high brightness through the use of multi-led technology. They are fitted in a high quality bright chrome or black chrome brass housings, fitted with fixing nut and washer. **CE approved**.

Operating voltage 24V dc   Reverse voltage (max.) 5V dc   Operating temperature -55°C to +70°C

Typical luminous intensity	Red	Yellow/Green*	Orange	Blue
	170mcd	146mcd	116mcd	300mcd
Operating current	22mA	14mA	14mA	20mA

*Mixed colour, not bi-colour

OPT320

Colour		Price Each				
	Order Code	1+	25+	100+	250+	500+
Bright Chrome						
Red	654-231					
Yellow/Green	654-243					
Orange	654-255					
Blue	653-962					
Black Chrome						
Red	654-267					
Yellow/Green	654-279					
Orange	654-280					
Blue	654-620					

10mm with Integral Resistor
12V ac and 24V ac

EBT

Total L behind bezel = 42, Bezel dia. = 16,
Thread = M14 1,
Mounting hole dia. = 14.5,
Tab connections = 2.8 0.8

A range of panel mounting indicators with integral resistor to permit direct connection to 12V ac and 24V ac supplies. They are fitted in a high quality bright chrome or black chrome brass housing fitted with fixing nut and washer. Connection is by faston/solder tab terminals. **CE** approved.

Operating voltage (±10%)   12V ac, 24V ac
Operating current (max.)   20mA
Operating temperature range   -55°C to +70°C
Life expectancy   60,000 hours min

Typical luminous intensity (mcd) at operating current:			
	HE Red	Green	Yellow
12V ac	67	22	26
24V ac	52	16	19

OPT500

Colour		Price Each			
	Order Code	1+	25+	50+	100+	250+
Bright Chrome						
12V ac HE Red	882-367					
12V ac Green	882-379					
12V ac Yellow	882-380					
24V ac HE Red	882-392					
24V ac Green	882-409					
24V ac Yellow	882-410					
Black Chrome						
12V ac HE Red	882-422					
12V ac Green	882-434					
12V ac Yellow	882-446					
24V ac HE Red	882-458					
24V ac Green	882-460					
24V ac Yellow	882-471					

10mm with Integral Resistor
110V ac and 240V ac

EBT

Total L behind bezel = 67, Bezel dia. = 16,
Thread = M14 1
Mounting hole dia. = 14.5.
Tab connections = 2.8 0.8

A range of panel mounting indicators with integral resistor to permit direct connection to 110V ac and 240V ac supplies. The 10mm LEDs are fitted in high quality bright chrome or black chrome brass housings, fitted with fixing nut and washer. A matching blue indicator is available using a fluorescent (neon) tube. Connection is by faston/solder tab terminals. **CE** approved.

Note: 110V ac types are not suitable for use on 240V ac supply by using a dropper resistor.

Operating voltage   110V nom, 135V max.   Operating current (nom.)   6mA (110V), 3mA (230V)
230V nom, 250 max.   Operating temperature range   −25°C to +60°C

Typical Luminous Intensity	Red	Green	Yellow	Blue
110V	47mcd	34mcd	27mcd	7.5mcd
230V	18mcd	11mcd	8mcd	7.5mcd
Life expectancy LED	60,000 hours min.			
Fluorescent	25,000 hours min.			

OPT243

Colour		Price Each				
	Order Code	1+	25+	50+	100+	250+
Bright Chrome						
110V Red	.461-453					
110V Green	.461-465					
110V Yellow	.461-477					
110V Blue (neon)	461-489					
240V Red	.461-490					
240V Green	.461-507					
240V Yellow	.461-519					
240V Blue (neon)	461-520					
Black Chrome						
110V Red	.461-532					
110V Green	.461-544					
110V Yellow	.461-556					
110V Blue (neon)	461-568					
240V Red	.461-570					
240V Green	.461-581					
240V Yellow	.461-593					
240V Blue (neon)	461-600					

LED Indicators, 16mm Lens Diameter

Cable Assemblies for Tab Terminals

EBT

● Cable assemblies suitable for all indicators with 2.0 0.55mm and 2.8 0.8mm tab terminations
● These assemblies fit all of the EBT ranges of LED Indicators and Xenon Flash Indicators. The 2.0 0.55mm fit the 3 & 5mm ranges and the 2.8 0.8mm fit the 10 & 16mm ranges and the Xenon Indicators

● Suitable for all voltage ranges
● Flying lead length is 300mm in red and black

OPT626

		Price Each				
2.0 0.5mm	Order Code	5+	25+	50+	100+	250+
Red, 300mm	301-1598					
Black, 300mm	301-1604					
2.8 0.8mm						
Red, 300mm	301-1616					
Black, 300mm	301-1628					

16mm, with Lamp Test Facility and Integral Resistor, IP67 Rated
24V dc Matt Chrome (Brushed Satin) Finish

EBT

Total L behind bezel = 58, Bezel dia. = 25,
Thread = M22 1.5, Mounting hole dia. = 22.5,
Tab Connections = 2.8 0.8

A range of LED panel-mounting indicators with a lamp test facility. Integral resistors permit direct connection to the stated supply. The LED's are fitted in a high quality Matt Chrome (Brushed Satin) housing, giving protection to **IP67** rating, fitted with 'O' ring, fixing nit and washer. Connection is by faston/solder tab terminals.

	Red	Green	Yellow	Blue	White
Typical luminous intensity (mcd):	160	120	350	280	350
Forward Current:	19mA	19mA	19mA	17mA	17mA
Reverse Voltage (max.):	80V	Operating Temperature:		-20°C to +50°C	

OPT614

Colour		Price Each				
	Order Code	1+	10+	25+	50+	100+
Matt Chrome (Brush satin)						
24V dc						
Red	301-4289					
Green	301-4290					
Yellow	301-4307					
Blue	301-4319					
White	301-4320					

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