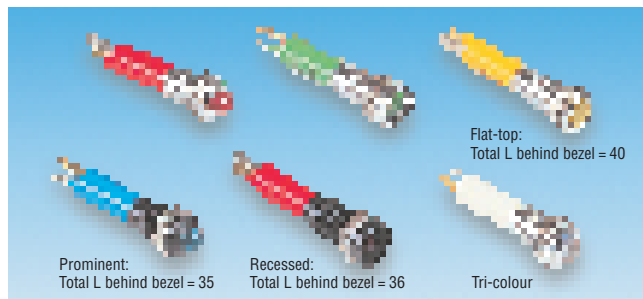


Colour	Order Code	Price Each				
		1+	25+	100+	250+	500+
<b>Prominent – Clear Anodised</b>						
Red	.178-171					
Green	.178-172					
Yellow	.178-173					
<b>Recessed – Clear Anodised</b>						
Red	.178-174					
Green	.178-175					
Yellow	.178-176					
<b>Prominent – Black Anodised</b>						
Red	.178-177					
Green	.178-178					
Yellow	.178-179					
<b>Recessed – Black Anodised</b>						
Red	.178-180					
Green	.178-181					
Yellow	.178-182					

## 5mm with Integral Resistor Single, Flashing and Tri-colour



All types: Bezel dia. = 9.5, Thread = M8 0.75, Mounting hole dia. = 8.  
Tab connections = 2.8 0.8 (except tri-colour tabs = 2 0.5).  
Tinned tab indicates cathode (-), common cathode on tri-colour.

A range of panel mounting LED indicators with integral resistor to permit direct connection to 12V or 24V dc supplies. The 5mm LEDs are fitted in high quality bright chrome or black chrome plated brass housings, fitted with fixing nut and washer. Connection is by faston/solder tab terminals.

Available in prominent, recessed and flat top LED styles. The tri-colour indicators have HE red and green LEDs, both LEDs connected gives yellow. CE approved.

Operating voltages	12V dc, 24V dc $\pm 10\%$	Reverse voltage (max.)	5V
Operating current (max.)	12V 30mA 24V 22mA Flashing 20–35mA Tri-colour 15mA (30mA yellow)	Viewing angle	80°
		Operating temperature	-25°C to +70°C

Typ. Luminous Intensity at Operating Current	Red	HE Red	Green	Yellow	Blue
Prominent 12V	—	30mcd	40mcd	38mcd	12mcd
Prominent 24V	—	22mcd	27mcd	27mcd	10mcd
Recessed 12V	—	38mcd	50mcd	40mcd	12mcd
Recessed 24V	—	30mcd	35mcd	30mcd	10mcd
Flat-top 12V	1.3mcd	14.5mcd	13.5mcd	12.5mcd	—
Flat-top 24V	1.2mcd	11mcd	10mcd	9mcd	—
Flashing	—	12.5mcd	—	—	—
Tri-colour Prominent/Recessed	Red 10mcd + Green 20mcd				
Tri-colour Flat-top	Red 2.5mcd + Green 2.5mcd				

OPT294/213

Colour	Order Code	Price Each				
		1+	25+	100+	250+	500+
<b>Bright Chrome – Prominent</b>						
12V HE Red	.461-015					
12V Green	.461-027					
12V Yellow	.461-039					
12V Blue	.461-040					
24V HE Red	.461-052					
24V Green	.461-064					
24V Yellow	.461-076					
24V Blue	.461-088					
24V Flashing Red	.461-090					
12V Tri-colour	.461-106					
24V Tri-colour	.461-118					
<b>Bright Chrome – Recessed</b>						
12V HE Red	.461-120					
12V Green	.461-131					
12V Yellow	.461-143					
12V Blue	.461-155					
24V HE Red	.461-167					
24V Green	.461-179					
24V Yellow	.461-180					
24V Blue	.461-192					
24V Flashing Red	.461-428					
12V Tri-colour	.461-362					
24V Tri-colour	.461-374					

continued

Colour	Order Code	1+	25+	100+	250+	500+
<b>Bright Chrome – Flat Top</b>						
12V Red	.179-768					
12V HE Red	.179-771					
12V Green	.179-769					
12V Yellow	.179-770					
24V Red	.179-772					
24V HE Red	.179-775					
24V Green	.179-773					
24V Yellow	.179-774					
12V Tri-colour	.179-776					
24V Tri-colour	.179-777					
<b>Black Chrome – Prominent</b>						
12V HE Red	.461-209					
12V Green	.461-210					
12V Yellow	.461-222					
12V Blue	.461-234					
24V HE Red	.461-246					
24V Green	.461-258					
24V Yellow	.461-260					
24V Blue	.461-271					
24V Flashing red	.461-430					
12V Tri-colour	.461-398					
24V Tri-colour	.461-386					
<b>Black Chrome – Recessed</b>						
12V HE Red	.461-283					
12V Green	.461-295					
12V Yellow	.461-301					
12V Blue	.461-313					
24V HE Red	.461-325					
24V Green	.461-337					
24V Yellow	.461-349					
24V Blue	.461-350					
24V Flashing red	.461-441					
12V Tri-colour	.461-416					
24V Tri-colour	.461-404					

## 5mm, High Contrast with Integral Resistor, IP67 Rated 24V dc



Total L behind bezel = 38, Bezel dia. = 9.5,  
Thread = M8 0.75, Mounting hole dia. = 8,  
Tab Connections = 2.8 0.8

A range of LED panel-mounting indicators with integral resistor to permit direct connection to 24V dc supplies. They incorporate a white diffused 5mm LED to give a high 'on/off' contrast and are fitted in high quality prominent or recessed, bright chrome or black chrome brass housings, fitted with fixing nut and washer. Connection is by faston/solder tab terminals.

Operating voltage:	24V dc	Reverse Voltage (max.)	80V
Operating Temperature:	-20°C to +50°C	Operating current:	17mA
Typical luminous intensity (mcd)		HE Red	60
		Green	40
		Yellow	40

OPT618

Colour	Order Code	Price Each				
		1+	10+	25+	50+	100+
<b>Matt Chrome (Brushed Satin) - Prominent</b>						
HE Red	301-4332					
Green	301-4344					
Yellow	301-4356					
<b>Matt Chrome (Brushed Satin) - Recessed</b>						
HE Red	301-4393					
Green	301-4400					
Yellow	301-4411					
<b>Black Chrome - Prominent</b>						
HE Red	301-4368					
Green	301-4370					
Yellow	301-4381					
<b>Black Chrome - Recessed</b>						
HE Red	301-4423					
Green	301-4435					
Yellow	301-4447					

continued