170-371/372 | and R 373/374/375 | and R Panel Indicators (LED + Neon)

A range of 6, 7 and 8mm diameter panel indicators offering an attractive variety of bezel shapes and finishes. All the indicators feature brass bodies with either chrome plated or black nickel chromate plated finish. The 79 and 86 series are available as three types; LED, LED with integral resistor and neon with integral

resistor, enabling the user to mix indicators on a panel but keep a common bezel shape. The LED indicators with integral resistors may be operated directly by the nominal rail voltage and are therefore made as easy to use as filament lamps but with the advantages of very long life and resistance to vibration.

	67/68/69 Series	Mounting hole dia. 6.2mm		Order Code				
	'67' Type	2251		CHROME BEZE	L	BLACK NICKEL - CHROME BEZEL		
	S Dawin		RED	LED867004-NO	OR	LED-	-367104-NOOR	
			GREEN	LED-867004-NO	OG	LED-	-367104NOOG	
-	LED Indicator	- LaPropy		LED-867004-NOOA		LED867104NOOA		
	'68' Type	2535	RED	LED868004_NO	OR	LEO-	-868104NOOR	
			GREEN	LEDB68004NO	OG	LED-	-858104NOOG	
	LED Indicator		AMBER	LED868004NO	OA	LED-	-868104-NOOA	
-	'69' Type	31:1	RED	LED-869004-NOOR		1.55		
					* .		-869104NOOR	
		37 35	GREEN	LEDB69004NO	OG	+.ED-	-869104NOOG	
	LED Indicator	Corroce Corroce	AMBER	LED869004NO	OA	LED	-B69104-NOOA	
	'79' Series (with solder terms)	Mounting hole dia. 7.2mm			CHROME B	EZEL.		
		19	RED	LED879000SO	OR			
			GREEN	LED879000SO	og			
	LED Indicator		AM8ER	LED—879000—SOOA				
-		77:21		6V dc	12	V dc	24V dc	
	THE STATE OF THE S	15 17 115	RED	LEDV79006SOOR	LEDV79	012—SOOR	LEDV79024SOOR	
		945	GREEN	LEDV79006SOOG	LED-V79	012—SOOG	LEDV79024SOOG	
	LED Indicator with resistor	MI	AMBER-	LEDV79006SOOA	LEDV79	012-SOOA	LEDV79024SOOA	
	S. S. Sauth	25 12 11		240/220V ac		1	20/110V ac	
	Internation of the second	27	RED	NEOV79240SC	OR	NEO-	-V79120SOOR	
	Man Indicator with register	283	GREEN	NEOV79240SC		NEO-	-V79120SOOG	
-	Neon Indicator with resistor	Manatina bala dia 0.0	AMBER				NEOV79120SOOA	
	*86" Series (with solder terms)	Mounting hole dia. 8.2mm			CHROME	BEZEL		
4		1921		LED886000SOOR				
		, , , , , , , , , , , , , , , , , , , ,	GREEN	LED—886000—SOOG				
	LED Indicator		AMBER	LED886000SOOA				
		30.51		6V dc	13	2V dc	24V dc	
	E annum.		RED	LED-V86006-SOOR	LED-V86	012—SOOR	LED-V86024-SOOR	
			GREEN	LEDV86006SOOG	LED-V86	012—SOOG	LED-V86024-SOOG	
-	LED Indicator with resistor	L	AMBER	LED-V86006-SOOA		012—SOOA	LED-V86024-SOCA	
		40921		240/220V ac	-		20/110V ac	
	The state of the s		RED	NEOV86240SC	XOR	I NEO-	-V86120-SOOR	
			GREEN	NEOV86240SC			-V86120-SOOG	

LED Specifications

Maximum Ratings

Forward Current	1 _F	30 mA
Reverse voltage	٧ _R	3 V
Power Dissipation	PD	70 mW
Operating Temp. Range	Topg	-25° to +80°C
Storage Temp. Range	Tstg	-30° to +85°C

Operating Characteristics

		Red	Green	Amber	Condition
Recommended forward current	1 _F	3-15 mA	10 - 20 mA	10 - 20 mA	
Forward Voltage (typ.)	VF	2V	2.1V	2.1V	at I F = 10 mA
Light Intensity (typ.)	L	0.8 mcd	1.0 mcd	2.0 mcd	at IF = 20 mA
Wavelength (typ.)	λ	700 nm	565 nm	585 nm	
Leakage current (typ.)	IR	. 10 μΑ		at ∀R = 3V	
Viewing Angle			120°		
Operating Current — LED indicators with Integral Resistor	1	10 mA	15 mA	15 mA	at nominal voltage

Neon Specifications

Style	79	86		
Current Red/Amber	0.6 mA	1.2 mA		
Green	0.5 mA	0.8 mA		
Max Starting Voltage	75V			
Max Ambient Temp.	95°C			

General Electrical Specification of all Indicators

	LED Indicators	Neon Indicators	
Insulation Resistance	50 M Ω at 500V dc	100 M Ω at 500V dc	
Proof Voltage	500V ac for 1 min.	1500V ac for 1 min.	
Life	50,000 hours	20,000 hours	

Polarity of 79 + 86 LED Indicators is shown by a colour blob for the anode (+ve) N.B. For alternative terminations (e.g. wire ended, P.O.T.'s etc) or any other special requirements please contact B & R Sales Office.



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