

LED-Indicators



LED-INDICATORS – red section

We offer a complete range of high-quality bracket indicators. Diodes are carefully selected for constant colour and brightness, housings are solid brass and chromium-plated.

LED-Indicators

Ø 7 mm



Ø 7 mm



Ø 10.5 mm



Ø 9 mm
superbright



Ø 12.2 mm
waterproof



Ø 7 mm
tricoloured



Ø 9 mm
tricoloured



Ø 9 mm
flashing



Ø 12.2 mm
waterproof



with lead and
connector



LED-Indicators

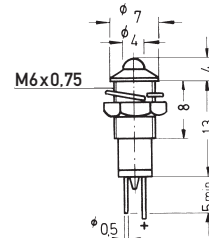
Specifications:									
Models	P Power dissipation (mW)	V _F Forward voltage (V) ¹	I _F Forward current (mA)	I _V Luminous intensity (mcd) at I _F = 10 mA	λ _P Peak emission wavelength (nm) ¹	V _R Reverse voltage (V)	I _R Reverse current (μA) at V _R = 3 V	T _{OP} Operating temperature (°C)	
LD 30 LD 32	85	2.1 3.0	20 25	1.8	700	5.0	100	- 40 + 85	
min. typ. max.									
LD 34	110	2.0 2.2	20 40	20 ⁴	630	4.0	10	- 30 + 70	
min. typ. max.									
LD 36 LDE 36 ³	100	1.7 2.0	20 50	20 30	660	4.0	100	- 30 + 85	
min. typ. max.									
LD 40 LD 42	85	2.1 3.0	20 25	3.2	555	5.0	100	- 40 + 85	
min. typ. max.									
LD 44	110	2.0 2.1	25 45	8 ⁴	565	4.0	10	- 30 + 70	
min. typ. max.									
LD 46 LDE 46 ³	125	2.1 2.5	20 50	8 12	555	4.0	100	- 30 + 85	
min. typ. max.									
LD 60 LD 62	85	2.1 3.0	20 25	2.7	600	5.0	100	- 40 + 85	
min. typ. max.									
LD 64	110	2.1 2.2	35 50	10 ⁴	585	4.0	10	- 30 + 70	
min. typ. max.									
LD 66 LDE 66 ³	125	2.2 2.5	20 50	16 24	580	4.0	100	- 30 + 85	
min. typ. max.									
LD 70 LD 72	62	2.7 3.0 3.3	20 50	0.9 ⁴	470	5.0	30	- 20 + 80	
min. typ. max.									
LD 56 red green yellow	45	2.1 3.0	10 20	2.2	700	5.0	100	- 40 + 85	
								min. typ. max.	
									min. typ. max.
60	2.1 3.0	10 25	3.9	555	5.0	100	- 40 + 85		
							min. typ. max.		
Combination red / green									
LD 96 flashing	200			0.5 ² 1.6 ²	660	0.4		- 40 + 70	
min. typ. max.									
¹ with typical forward current ² at V _S = 5 V		³ Water proofing at 30 minutes at 1 m water column = IP 67. ⁴ at I _F = 20 mA							

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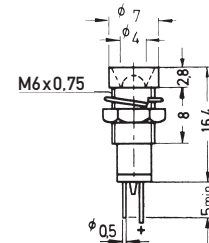
Models:

	Light colour	Housing	Dimensions
LD 30	red		
LD 40	green	brass	
LD 60	yellow	chromium-plated	
LD 70	blue		
LD 30 S	red		
LD 40 S	green	brass	
LD 60 S	yellow	black, matt finish	
LD 70 S	blue		



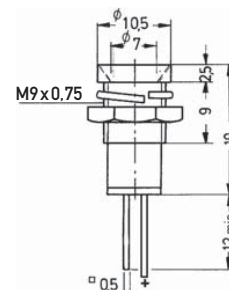
Also available with integrated resistor for 24 V operation.
Additional to type number: – 24

LD 32	red		
LD 42	green	brass	
LD 62	yellow	chromium-plated	
LD 72	blue		
LD 32 S	red		
LD 42 S	green	brass	
LD 62 S	yellow	black, matt finish	
LD 72 S	blue		

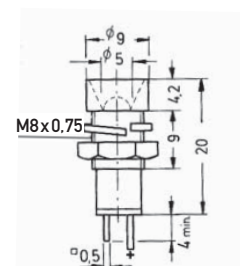


Also available with integrated resistor for 24 V operation.
Additional to type number: – 24

LD 34	red		
LD 44	green	brass	
LD 64	yellow	chromium-plated	
LD 34 S	red		
LD 44 S	green	brass	
LD 64 S	yellow	black, matt finish	



LD 36	red		
LD 46	green	brass	superbright
LD 66	yellow	chromium-plated	
LD 36 S	red		
LD 46 S	green	brass	superbright
LD 66 S	yellow	black, matt finish	



Also available with integrated resistor for 24 V operation.
Additional to type number: – 24

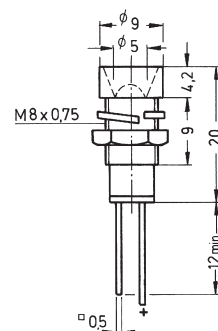


	Light colour	Housing	
LD 56	red/green/yellow	brass chromium-plated	tricoloured
LD 56 S	red/green/yellow	brass black, matt finish	tricoloured

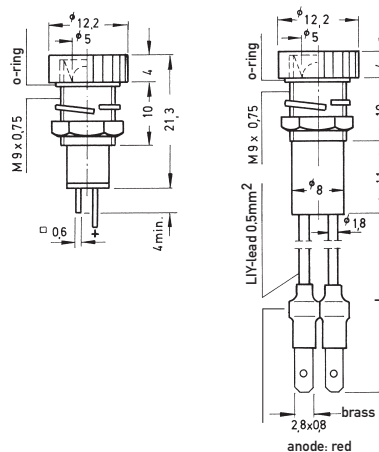
Technical drawing of a cathodic protection anode assembly. The drawing shows a cross-section of the assembly with various dimensions. The top part is a cylindrical cap with a diameter of 9 mm and a central hole with a diameter of 5 mm. The cap is secured with an M8x0.75 screw. The cap is 4.2 mm high. Below the cap is a 9 mm high section, and then a 20 mm high section. The bottom section is 14 mm high. The total height of the assembly is 43.2 mm. The bottom section has a diameter of 5 mm. The assembly is labeled with 'anode green', 'anode red', 'common', and 'cathode'.

LD 96 R	red/red/red		
LD 96 G	green/green/green	brass	flashing
LD 96 Y	yellow/yellow/yellow	chromium-plated	
LD 96 SR	red/red/red		
LD 96 SG	green/green/green	brass	flashing
LD 96 SY	yellow/yellow/yellow	black, matt finish	

Flashing frequency = 3 Hz
Supply voltage = 4.75 V – 7 V



LDE 36	red		
LDE 46	green	brass	waterproof
LDE 66	yellow	chromium-plated	
LDE 36 S	red		
LDE 46 S	green	brass	waterproof
LDE 66 S	yellow	black, matt finish	



Additional to type number: – 24