

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	min. 2,1 typ. 3,0 max.	20 25	1,8	700	5,0	100	- 40 + 85	
LD 34		min. 2,0 typ. 2,2 max.	20 40	20 ⁴	630			- 30 + 70	
LD 36 LDE 36 ³	100	min. 1,7 typ. 2,0 max.	20 50	20 30	660	4,0	100	- 30 + 85	
LD 40 LD 42		min. 2,1 typ. 3,0 max.	20 25	3,2	555			- 40 + 85	
LD 44	110	min. 2,0 typ. 2,1 max.	25 45	8 ⁴	565	4,0	10	- 30 + 70	
LD 46 LDE 46 ³		min. 2,1 typ. 2,5 max.	20 50	8 12	555			- 30 + 85	
LD 60 LD 62	85	min. 2,1 typ. 3,0 max.	20 25	2,7	600	5,0	100	- 40 + 85	
LD 64		min. 2,1 typ. 2,2 max.	35 50	10 ⁴	585			- 30 + 70	
LD 66 LDE 66 ³	125	min. 2,2 typ. 2,5 max.	20 50	16 24	580	4,0	100	- 30 + 85	
LD 70 LD 72		min. 2,7 typ. 3,0 max. 3,3	20 50	0,9 ⁴	470			5,0 30	- 20 + 80
LD 56	45	red } min. 2,1 typ. 3,0 max.	10 20	2,2	700	5,0	100	- 40 + 85	
		green } min. 2,1 typ. 3,0 max.	10 25	3,9	555			- 40 + 85	
		yellow } min. 2,1 typ. 3,0 max.	Combination red / green						
LD 96 flashing	200			0,5 ² 1,6 ²	660	0,4		- 40 + 70	

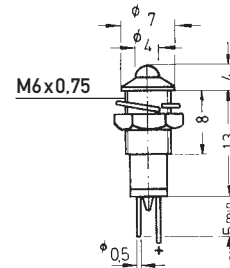
¹ with typical forward current
² at V_S = 5 V

³ Water proofing at 30 minutes at 1 m water column = IP 67.
⁴ at I_F = 20 mA

Models:

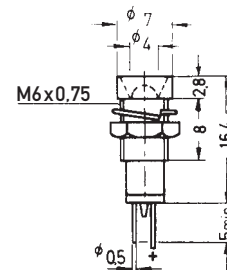
Light colour	Housing
LD 30 red	
LD 40 green	brass
LD 60 yellow	chromium-plated
LD 70 blue	
LD 30 S red	
LD 40 S green	brass
LD 60 S yellow	black, matt finish
LD 70 S blue	

Dimensions



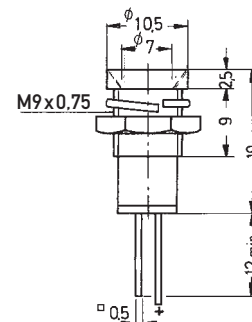
Also available with integrated resistor for 24 V operation.
Additional to type number: – 24

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	

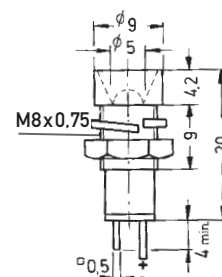


Also available with integrated resistor for 24 V operation.
Additional to type number: – 24

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



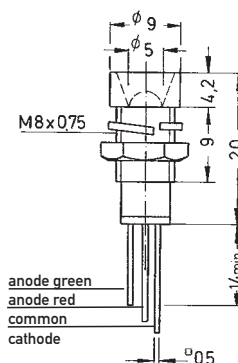
Also available with integrated resistor for 24 V operation.
Additional to type number: – 24



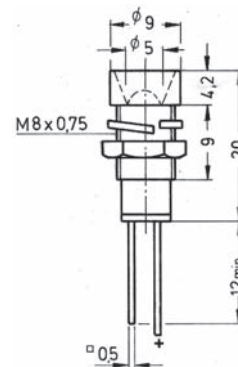
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Models:

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

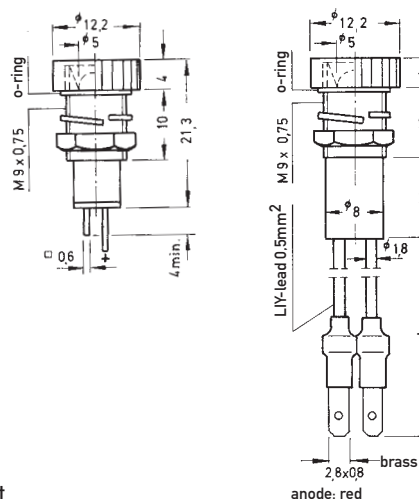


LD 96 R red/red/red	brass	flashing
LD 96 G green/green/green	chromium-plated	flashing
LD 96 Y yellow/yellow/yellow	brass	flashing
LD 96 SR red/red/red	brass	flashing
LD 96 SG green/green/green	black, matt finish	flashing
LD 96 SY yellow/yellow/yellow		



Flashing frequency = 3 Hz
Supply voltage = 4,75 V – 7 V

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



Special version: with lead and connector

Additional to type number: W

L = 50 mm; other length: minimum quantity and delivery time on request.

Also available with integrated resistor for 24 V operation.

Additional to type number: – 24