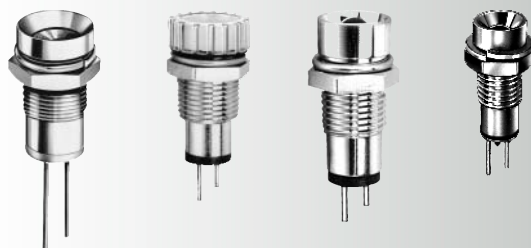


9

LEDs

LED Indicators

176



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. typ. max.	2,1 3,0	20 25	1,8	700	5,0	100	- 40 + 85
LD 34		min. typ. max.	2,0 2,2	20 40	20 ⁴	630	4,0	10	- 30 + 70
LD 36 LDE 36 ³	100	min. typ. max.	1,7 2,0	20 50	20 30	660	4,0	100	- 30 + 85
LD 40 LD 42		min. typ. max.	2,1 3,0	20 25	3,2	555	5,0	100	- 40 + 85
LD 44	110	min. typ. max.	2,0 2,1	25 45	8 ⁴	565	4,0	10	- 30 + 70
LD 46 LDE 46 ³		min. typ. max.	2,1 2,5	20 50	8 12	555	4,0	100	- 30 + 85
LD 60 LD 62	85	min. typ. max.	2,1 3,0	20 25	2,7	600	5,0	100	- 40 + 85
LD 64		min. typ. max.	2,1 2,2	35 50	10 ⁴	585	4,0	10	- 30 + 70
LD 66 LDE 66 ³	125	min. typ. max.	2,2 2,5	20 50	16 24	580	4,0	100	- 30 + 85
LD 70 LD 72		min. typ. max.	2,7 3,0 3,3	20 50	0,9 ⁴	470	5,0	30	- 20 + 80
LD 53 red green yellow	70	min. typ. max.	2,0 2,6	10 30	0,5 1,0	632	3,0	10	- 25 + 85
		min. typ. max.	1,9 2,4	20 30	0,25 0,5	558	3,0	10	- 25 - 25 + 85
		Combination red / green							
LD 56 red green yellow	45	min. typ. max.	2,1 3,0	10 20	2,2	700	5,0	100	- 40 + 85
		min. typ. max.	2,1 3,0	10 25	3,9	555	5,0	100	- 40 + 85
		Combination red / green							
LD 96 flashing	200	min. typ. max.			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

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

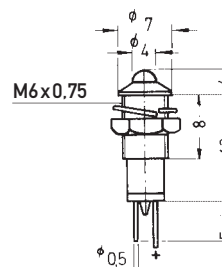
Housing

Dimensions

LD 30
LD 40
LD 60
LD 70
LD 30 S
LD 40 S
LD 60 S
LD 70 S

brass
chromium-plated

brass
black, matt finish



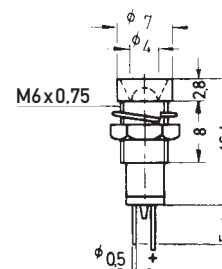
Also available with integrated resistor for 24 V operation.

Additional to type number: - 24

LD 32
LD 42
LD 62
LD 72
LD 32 S
LD 42 S
LD 62 S
LD 72 S

brass
chromium-plated

brass
black, matt finish



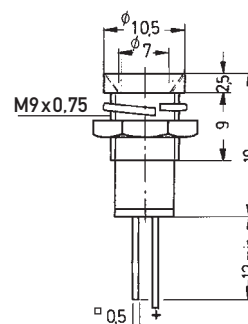
Also available with integrated resistor for 24 V operation.

Additional to type number: - 24

LD 34
LD 44
LD 64
LD 34 S
LD 44 S
LD 64 S

brass
chromium-plated

brass
black, matt finish



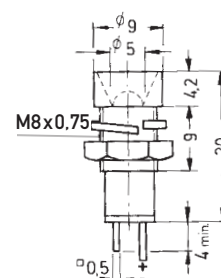
LD 36
LD 46
LD 66
LD 36 S
LD 46 S
LD 66 S

brass
chromium-plated

brass
black, matt finish

superbright

superbright



Also available with integrated resistor for 24 V operation.

Additional to type number: - 24

Models:

Light colour

Housing

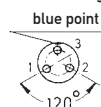
Dimensions

LD 53

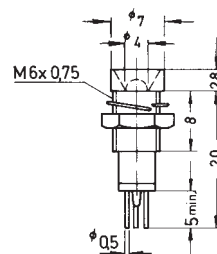
brass
chromium-plated

tricoloured

Connection diagram:



1 = anode green
2 = anode red
3 = common cathode



LD 53 S

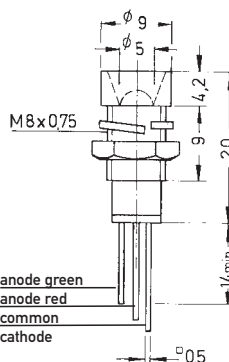
brass
black, matt finish

tricoloured

LD 56

brass
chromium-plated

tricoloured



LD 56 S

brass
black, matt finish

tricoloured

LD 96 R

LD 96 G

LD 96 Y

brass
chromium-plated

flashing

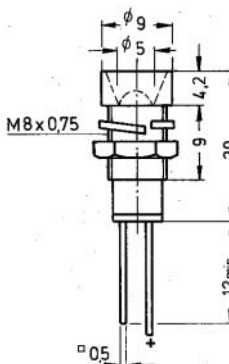
LD 96 SR

LD 96 SG

LD 96 SY

brass
black, matt finish

flashing



Flashing frequency = 3 Hz

Supply voltage = 4,75 V – 7 V

LDE 36

LDE 46

LDE 66

brass
chromium-plated

waterproof

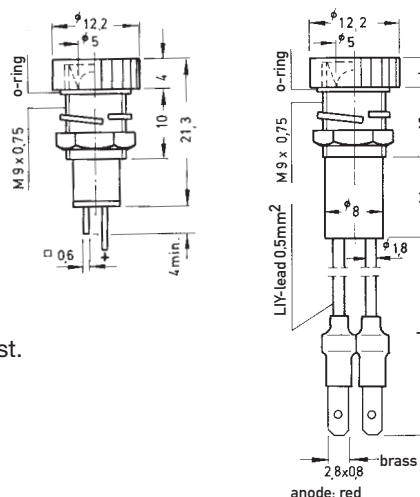
LDE 36 S

LDE 46 S

LDE 66 S

brass
black, matt finish

waterproof



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