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For any questions, you can email us directly:

sales@integrated-circuit.com

Frontpanel Switch, Momentary Action, Medium Stroke, 10 mm

**Weblinks**[html-datasheet](#), [General Product Information](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#)**All Variants**

Description	Order Number
LDT	0041.9141

Availability for all products can be searched real-time: <http://www.schurter.com/Stock-Check/Stock-Check-SCHURTER>



DATA LDT, LDS SWITCHES—MOMENTARY (LDT) AND LATCHING (LDS) ACTION



BENEFITS

- Absolute reliability and simple assembly
- Compact design with very small mounting depth
- Excellent price/performance ratio
- Suitable for front and print-mounting
- Good illumination
- Many different application fields

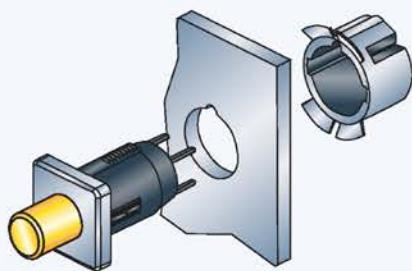
		LDT	LDS
Electrical data			
Switching voltage	[mV]	min. 100 AC / DC	min. 100 AC / DC
	[V]	max. 60 AC / 50 DC	max. 60 AC / 50 DC
Switching current max.	[mA]	200	200
Lifetime (at rated breaking capacity 1.2W)		>10 ⁵	>10 ⁵
Initial contact resistance, new	[mΩ]	<20	<20
Initial contact resistance, after lifetime	[mΩ]	<25	<25
Insulation resistance	[Ω]	>10 ¹⁰	>10 ¹⁰
Contact bounce time	[ms]	typ. 0.5	typ. 0.5
Mechanical data			
Actuating force	[N]	1.2 ± 0.6	
Contact travel	[mm]	1.3 ± 0.5	
End contact travel	[mm]	2.9 ± 0.5	
End stop strength	[N]	>50	>50
Lifetime	[operations]	>10 ⁵	>10 ⁵
Other data			
Soldering method	Hand soldering(soldering terminal)	or soldering bath(print terminals)	
Soldering heat resistance	[°C/s]	*280/3(soldering)270/5(print terminals)	*280/3(soldering)270/5(print terminals)
Ambient temperature	illuminated [°C/s]	-25 – +60	-25 – +60
	non-illuminated [°C/s]	-25 – +85	-25 – +85
Storage temperature	illuminated [°C/s]	-25 – +60	-25 – +60
	non-illuminated [°C/s]	-25 – +85	-25 – +85
Degree of protection		IP 40	IP 40
Materials			
Socket		Thermoplast PES	Thermoplast PES
Button		Thermoplast PC	Thermoplast PC
Contacts	gold on request	CuZn 37, mit 5 µm Ag	CuZn 37, mit 5 µm Ag
Contact spring		CuBe 37, mit 5 µm Ag	CuBe 37, mit 5 µm Ag
Terminals		CuZn 37, mit 4 µm SN Pb 40	CuZn 37, mit 4 µm SN Pb 40

LED see page 29

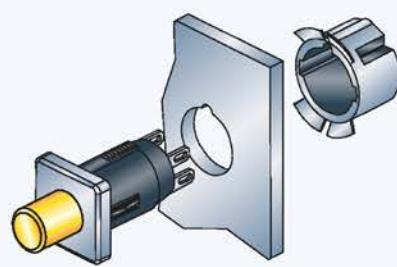
* Data refers to hand soldering only, not to be used for wave soldering

DIMENSIONS LDT, LDS SWITCHES—MOMENTARY AND LATCHING ACTION

CONSTRUCTION

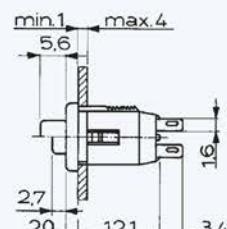
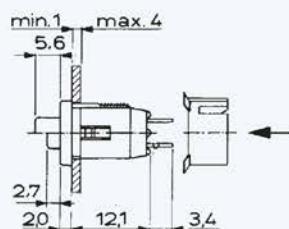


LDT / LDS, small button

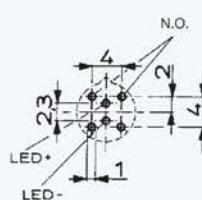


LDT / LDS, small button with solder terminal

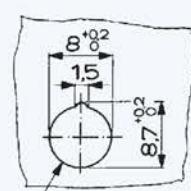
DIMENSIONS



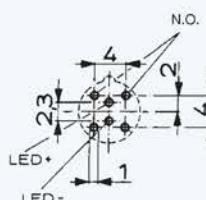
OTHER DATA



Wiring diagram



Front panel drilling



Drilling diagram



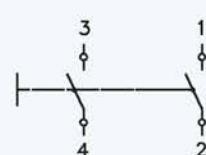
Solder terminal version

**FRONTPANEL
MEDIUM STROKE**

CIRCUIT DIAGRAM



NO 1 pole



NO 2 pole



OVERVIEW LDT, LDS SWITCHES—MOMENTARY (LDT) AND LATCHING (LDS) ACTION



In addition to the versions with the small button, further versions with a large button and switching functions are available on request.

LDT/LDS

LDT/LDS

FEATURES

Illumination	non-illuminated			illuminated		
Models	small button			small button		
PART NUMBER *						
LDT NO 1 pole	0041.9141.	x	x	0	x	
LDT NO 2 pole	0041.9142.	x	x	0	x	
LDS NO 1 pole	0041.9151.	x	x	0	x	
LDS NO 2 pole	0041.9152.	x	x	0	x	
Colour of small button **						
red		3				3
green		5				5
black		7				
Shape of bezel/ button						
round			1			1
square		3				3
Colour of LED						
red						1
green						2
Colour of bezel						
black			7			7
Mounting accessories						
Securing clip***	(necessary for front panel mounting) 0850.9242					
	Securing clip:			Round bezel/button :		

* X in the Part No. must be replaced by the desired version

** With the illuminated version, the small button is transparent

***Securing clip must be ordered separately

OVERVIEW LDT, LDS SWITCHES—MOMENTARY (LDT) AND LATCHING (LDS) ACTION



FEATURES

FRONTPANEL
MEDIUM STROKE

- * X in the Part No. must be replaced by the desired version
- ** With the illuminated version, the small button is transparent
- ***Securing clip is included

Scanning step is increased



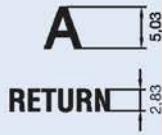


LETTERING

Depending on the application and font, there are various lettering possibilities. The following standards can be used for key letterings:

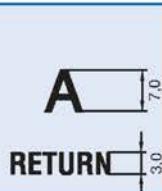
ORDER INDEX LETTERING

A = 001	P = 016	4 = 031	↑ = 046	EIN = 061
B = 002	Q = 017	5 = 032	→ = 047	AUS = 062
C = 003	R = 018	6 = 033	← = 048	AUF = 063
D = 004	S = 019	7 = 034	↓ = 049	AB = 064
E = 005	T = 020	8 = 035	↑ = 050	ON = 065
F = 006	U = 021	9 = 036	% = 051	OFF = 066
G = 007	V = 022	÷ = 037	√ = 052	UP = 067
H = 008	W = 023	- = 038	CTRL = 053	DOWN = 068
I = 009	X = 024	· = 039	RETURN = 054	HIGH = 069
J = 010	Y = 025	× = 040	SHIFT = 055	LOW = 070
K = 011	Z = 026	÷ = 041	LOCK = 056	ON/OFF = 071
L = 012	0 = 027	* = 042	STOP = 057	START = 072
M = 013	1 = 028	= = 043	ENTER = 058	
N = 014	2 = 029	# = 044	BACK = 059	
O = 015	3 = 030	↔ = 045	LINE = 060	



MCS 18, LETTER HEIGHTS AND FONTS

- Single characters, Univers 65
- Legends max. 6 characters in line, Univers 65
- Insert label and front foil anthracite, RAL 7016
- Characters and symbols light grey, RAL 7035



SSM 27, LETTER HEIGHTS AND FONTS

- Single characters, Univers 65
- Legends max. 6 characters in line, Akzident-Grotesk condensed bold type
- Front foil anthracite, RAL 7016
- Characters and symbols light grey, RAL 7035



LIGHTING TECHNOLOGY

New specification from 1.7.2011*

TECHNICAL DATA LEDs

1. Maximum Ratings	LED old	LED new*	LED old	LED new*	LED old	LED new*
Internal part number		0925.9730		0925.9731		0925.9732
Light colour	red	red	green	green	yellow	yellow
Forward current DC	I _f max. [mA]	40	30	40	30	30
Power dissipation	P _d max. [mW]	130	100	130	100	100
2. Characteristics (typ. At T ₀ = 25°C)						
Forward Voltage	at I _f = 10mA, U _f typ. [V]	2.0 (<2.6)	2 at 20mA	2.0 (<2.6)	2.4 at 20mA	2.0 (<2.6)
Luminous intensity	at I _f = 10mA, I _l typ. [mcd]	11.2 - 28	6.3 to...	18 - 45	6.3 to...	11.2 - 28
Viewing angle	typ. [degree]	50	60	50	60	50
Peak wave lenght	typ. [nm]	635	635	565	565	586
Reverse voltage	U _r typ. [V]	5	6	5	6	6