

Frontpanel Switch, Momentary Action, Medium Stroke, 10 mm



#### Weblinks

[html-datasheet](#), [General Product Information](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [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/en/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

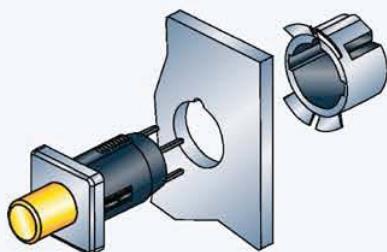
	LDT	LDS
<b>Electrical data</b>		
Switching voltage [mV] [V]	min. 100 AC / DC max. 60 AC / 50 DC	min. 100 AC / DC max. 60 AC / 50 DC
Switching current max. [mA]	200	200
Lifetime (at rated breaking capacity 1.2W)	>10 <sup>6</sup>	>10 <sup>6</sup>
Initial contact resistance, new [mΩ]	<20	<20
Initial contact resistance, after lifetime [mΩ]	<25	<25
Insulation resistance [Ω]	>10 <sup>10</sup>	>10 <sup>10</sup>
Contact bounce time [ms]	typ. 0.5	typ. 0.5
<b>Mechanical data</b>		
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 <sup>6</sup>	>10 <sup>6</sup>
<b>Other data</b>		
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] non-illuminated [°C/s]	-25 – +60 -25 – +85	-25 – +60 -25 – +85
Storage temperature illuminated [°C/s] non-illuminated [°C/s]	-25 – +60 -25 – +85	-25 – +60 -25 – +85
Degree of protection	IP 40	IP 40
<b>Materials</b>		
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

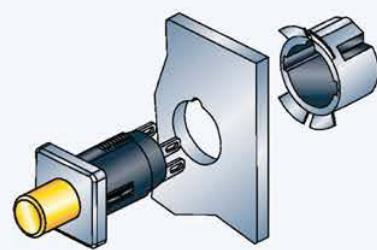
\* Data refers to hand soldering only, not to be used for wave soldering

DIMENSIONS LDT, LDS SWITCHES—MOMENTARY AND LATCHING ACTION

CONSTRUCTION

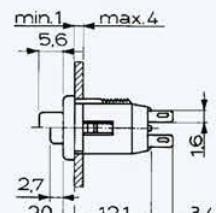
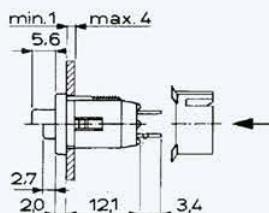


LDT / LDS; small button

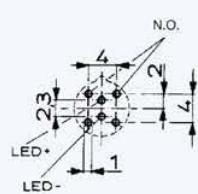


LDT / LDS; small button with solder terminal

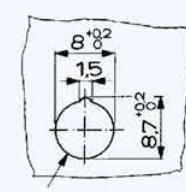
DIMENSIONS



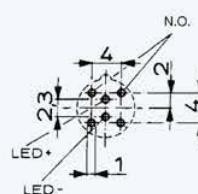
OTHER DATA



Wiring diagram



Front panel drilling



Drilling diagram



Solder terminal version

FRONT PANEL  
MEDIUM STROKE

CIRCUIT DIAGRAM

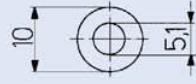
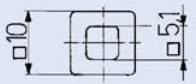


NO 1 pole



NO 2 pole

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

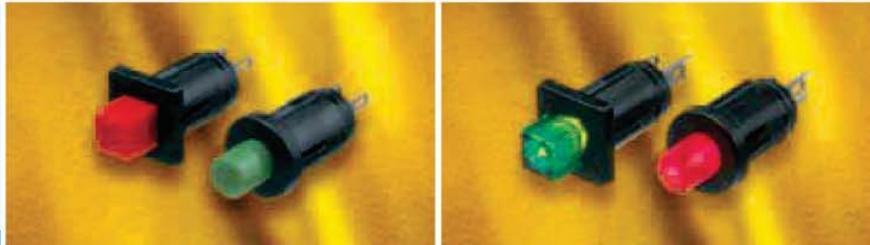
<p>In addition to the versions with the small button, further versions with a large button and switching functions are available on request.</p>	LDT / LDS				
				LDT / LDS	
<b>FEATURES</b>					
<b>Illumination</b>	non-illuminated		illuminated		
<b>Models</b>	small button		small button		
<b>PART NUMBER *</b>					
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
<b>Colour of small button **</b>					
red		3			
green		5			
black		7			
<b>Shape of bezel/ button</b>					
round			1		
square			3		
<b>Colour of LED</b>					
red					1
green					2
<b>Colour of bezel</b>					
black			7		
<b>Mounting accessories</b>					
<b>Securing clip***</b>	(necessary for front panel mounting) <b>0850.9242</b>				
	<p>Securing clip:</p>  <p>Round bezel/button :</p>  <p>Square bezel/button :</p> 				

\* 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



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

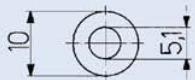
FEATURES

ILLUMINATION	non-illuminated				illuminated				
MODELS	small button with solder terminal				small button with solder terminal				
PART NUMBER *	0041.8841.	x	x	0	x	0041.8846.	x	x	x
LDT NO 1 pole	0041.8842.	x	x	0	x	0041.8847.	x	x	x
LDT NO 2 pole	0041.8851.	x	x	0	x	0041.8856.	x	x	x
LDS NO 2 pole	0041.8852.	x	x	0	x	0041.8857.	x	x	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					0850.9242				
SECURING CLIP ***									

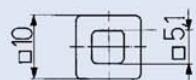
Securing clip:



Round bezel/button:



Square 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 is included

FRONT PANEL  
MEDIUM STROKE



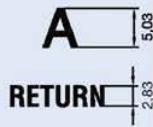
## LETTERING

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 <sub>f</sub> , max. [mA]	40	30	40	30	30
Power dissipation	P <sub>d</sub> , max. [mW]	130	100	130	100	100
2. Characteristics (typ. At T <sub>u</sub> =25°C)						
Forward Voltage	at I <sub>f</sub> =10mA, U, 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 <sub>f</sub> =10mA, I <sub>l</sub> , typ. [mcd]	11.2 - 28	6.3 to...	18 - 45	6.3 to...	11.2 - 28
Viewing angle	typ. [degrees]	50	60	50	60	50
Peak wave lenght	typ. [nm]	635	635	565	565	586
Reverse voltage	U, typ. [V]	5	6	5	6	5