# **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

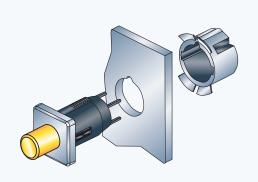
CARD CONTRACTOR CO.	100000	Chieffico			
		LDT	l LDS		
Electrical data		EUI	EDC		
Switching voltage	[mV]	min. 100 AC / DC	min, 100 AC / DC		
Switching voltage	[WV]	max. 60 AC / 50 DC	min. 100 AC / DC max. 60 AC / 50 DC		
Switching current max.	[mA]	200	200		
Lifetime (at rated breaking capacity 1.2		> 10 <sup>5</sup>	> 10°		
Initial contact resistance, new [m\Omega]		< 20	< 20		
Initial contact resistance, new	[mΩ]	< 25	< 25		
<u> </u>		>10 <sup>10</sup>	< 25 >10 <sup>10</sup>		
Insulation resistance	[Ω]				
Contact bounce time Mechanical data	[ms]	typ. 0.5	typ. 0.5		
	FAIR	1.2 ± 0.6			
Actuating force	[N]				
Contact travel	[mm]	1.3 ± 0.5			
End contact travel	[mm]	2.9 ± 0.5			
End stop strength	[N]	>50	>50		
Lifetime	[operations]	> 105	>105		
Other data					
Soldering method Hand soldering(sold	ering 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		
	n-illuminated [°C/s]	-25 – +85	-25 – +85		
Storage temperature	illuminated [°C/s]	-25 - +60 -25 - +85	-25 - +60 -25 - +85		
	n-illuminated [°C/s]	-25 - + 63 IP 40	-25 - +65 IP 40		
Degree of protection  Materials		IP 40	IP 40		
Socket		Thermoplast PES	Thermoplast PES		
Button		Thermoplast PC	Thermoplast PC		
Contacts		CuZn 37, mit 5 µm Aq	CuZn 37, mit 5µm Ag		
	gold on request	CuBe 37, mit 5 µm Ag	CuZn 37, mit 5μm Ag CuBe 37, mit 5μm Ag		
Contact spring		, ,	, ,		
Terminals		CuZn 37, mit 4µm SN Pb 40	CuZn 37, mit 4µm SN Pb 40		

LED see page 29

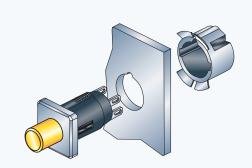
\* Data refers to hand soldering only, not to be used for wave soldering

#### DIMENSIONS LDT, LDS SWITCHES-MOMENTARY AND LATCHING ACTION

#### CONSTRUCTION

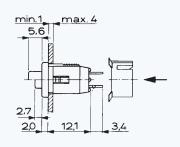


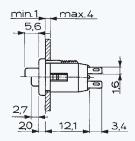
LDT / LDS, small button



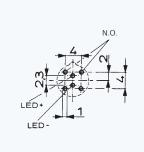
LDT / LDS, small button with solder terminal

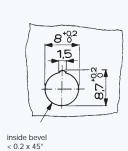
#### DIMENSIONS

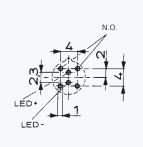














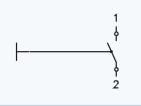
Wiring diagram

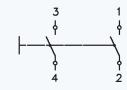
Front panel drilling

Drilling diagram

Solder terminal version

#### CIRCUIT DIAGRAM



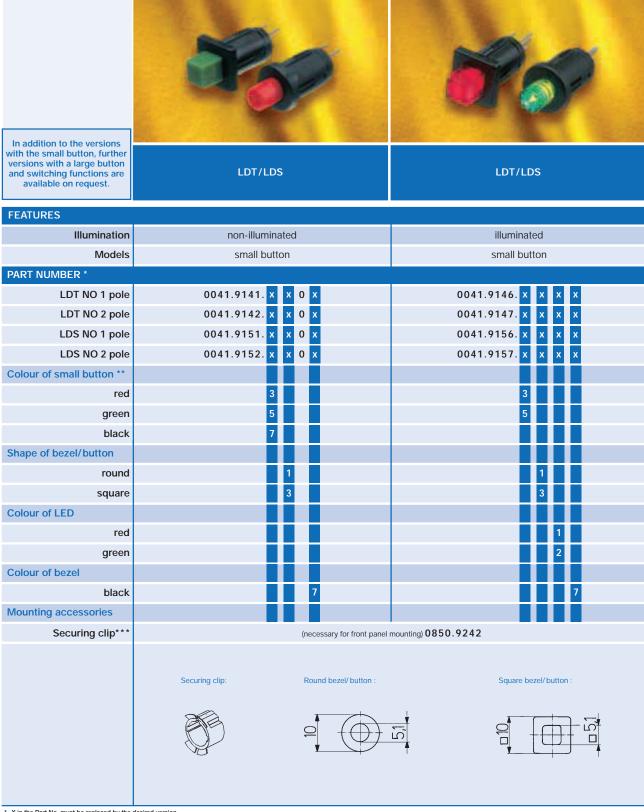


NO 1 pole

NO 2 pole

## **SCHURTER**

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



<sup>\*</sup> 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 *							
LDT NO 1 pole	0041.8841. x x 0 x	0041.8846. x x x x					
LDT NO 2 pole	0041.8842. x x 0 x	0041.8847. x x x x					
LDS NO 1 pole	0041.8851. x x 0 x	0041.8856. x x x x					
LDS NO 2 pole	0041.8852. x x 0 x	0041.8857. x x x x					
Colour of small button **	- 111						
red	3	3					
green	5	5					
black	7						
Shape of bezel/button							
round	1	1					
square	3	3 3					
Colour of LED	- 111						
red	- 1111						
green		2					
Colour of bezel							
black							
Mounting accessories							
Securing clip***	0850.9242						
	Securing clip: Round bezel/button:	square bezel/ button:					

<sup>\*</sup> 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



#### **LETTERING**

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

#### **ORDER INDEX LETTERING P** = 016 031 A = 001EIN B = 002Q = 017**5** = **032** 047 AUS = 062 C = 003R = 0186 = 033 048 AUF = 063 D = 004S = 0197 = 034 **↓** = 049 AB =064 E = 005T = 020↑ = **050** 8 = 035 ON = 065 F = 006U = 0219 = 036 % = 051 **OFF** = 066 **V** = G = 007**UP** = **067** 022 + = 037 $\sqrt{=052}$ H = 008W =023 038 CTRL = 053 **DOWN = 068** I = 009X = 024·= 039 RETURN = 054 HIGH = 069J = 010Y = 025x = 040**SHIFT** = **055** LOW = 070 K = 011**Z** = 026 ÷= 041 LOCK = 056 ON/OFF = 071 **STOP** = **057 START = 072** <del>\*</del>= 042 L = 0120 = 027M = 0131 = 028 == 043 **ENTER = 058** # = 044 N = 0142 = 029**BACK** = **059** 0 = 0153 = 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	40	30		
Power dissipation	P <sub>tot</sub> max. [mW]	130	100	130	100	130	100		
2. Characteristics (typ. At T <sub>u</sub> =25°C)									
Forward Voltage	at $I_F = 10$ mA, $U_F$ typ. [V]	2.0 (<2.6)	2 at 20mA	2.0 (<2.6)	2.4 at 20mA	2.0 (<2.6)	2.4 at 20mA		
Luminous intensity	at I <sub>F</sub> =10mA, I <sub>v</sub> typ. [mcd]	11.2 - 28	6.3 to	18 - 45	6.3 to	11.2 - 28	6.3 to		
Viewing angle	typ. [degree]	50	60	50	60	50	60		
Peak wave lenght	typ. [nm]	635	635	565	565	586	585		
Reverse voltage	U <sub>r</sub> typ. [V]	5	6	5	6	5	6		