

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

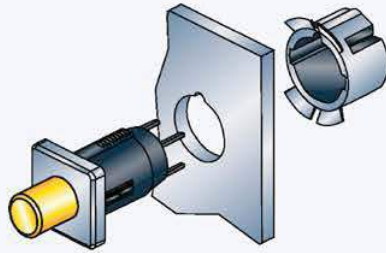
| | | LDT | LDS |
|--|---|---|---|
| Electrical data | | | |
| Switching voltage | [mV] | min. 100 AC / DC | min. 100 AC / DC |
| | [V] | max. 60 AC / 50 DC | max. 60 AC / 50 DC |
| Switching current max. | [mA] | 200 | 200 |
| Lifetime (at rated breaking capacity 1.2W) | | >10 ⁴ | >10 ⁵ |
| Initial 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 ⁴ | >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 5µm Ag | CuZn 37, mit 5µm Ag |
| Contact spring | | CuBe 37, mit 5µm Ag | CuBe 37, mit 5µm Ag |
| Terminals | | CuZn 37, mit 4µm SN Pb 40 | CuZn 37, mit 4µm SN Pb 40 |

LED 500 page 29

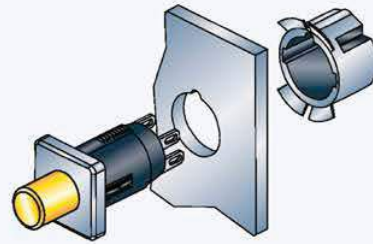
* Data refers to hand soldering only, not to be used for wave soldering

DIMENSIONS LDT, LDS SWITCHES—MOMENTARY AND LATCHING ACTION

CONSTRUCTION

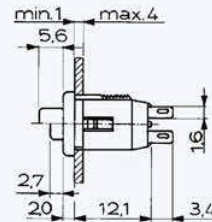
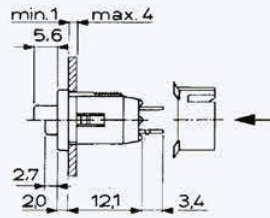


LDT / LDS, small button

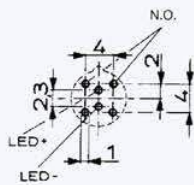


LDT / LDS, small button with solder terminal

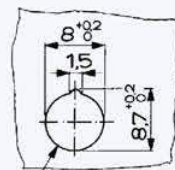
DIMENSIONS



OTHER DATA

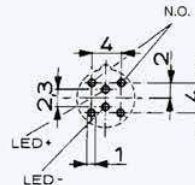


Wiring diagram



inside bevel
< 0.2 x 45°

Front panel drilling



Drilling diagram

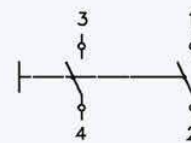


Solder terminal version

CIRCUIT DIAGRAM



NO 1 pole



NO 2 pole

FRONTPANEL
MEDIUM STROKE




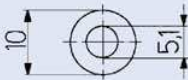
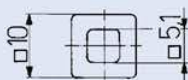
OVERVIEW LDT, LDS SWITCHES—MOMENTARY (LDT) AND LATCHING (LDS) ACTION



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

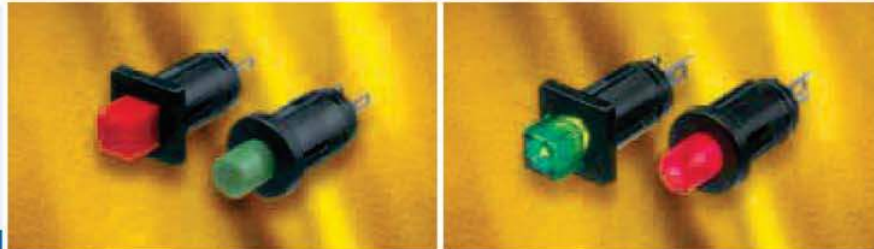
LDT/LDS

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 : | | 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 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 *

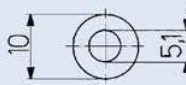
| | | | | | | | | | | | | | | |
|---------------------------|------------|---|---|---|---|--|--|--|--|------------|---|---|---|---|
| LDT NO 1 pole | 0041.8841. | x | x | 0 | x | | | | | 0041.8846. | x | x | x | x |
| LDT NO 2 pole | 0041.8842. | x | x | 0 | x | | | | | 0041.8847. | x | x | x | x |
| 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 ** | | | | | | | | | | | | | | |
| 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*** 0850.9242

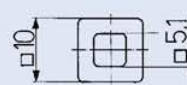
Securing clip:



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

FRONTPANEL
MEDIUM STROKE

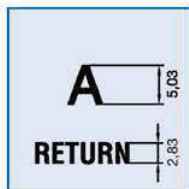


LETTERING

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

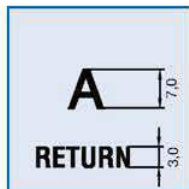
ORDER INDEX LETTERING

| | | | | |
|---------|---------|---------|--------------|--------------|
| 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 | x = 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 <small>I_f max. [mA]</small> | 40 | 30 | 40 | 30 | 40 | 30 |
| Power dissipation <small>P_f max. [mW]</small> | 130 | 100 | 130 | 100 | 130 | 100 |
| 2. Characteristics (typ. At T _p = 25°C) | | | | | | |
| Forward Voltage <small>at I_f = 10mA, U_f typ. [V]</small> | 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 <small>at I_f = 10mA, I_v typ. [mcd]</small> | 11.2 - 28 | 6.3 to... | 18 - 45 | 6.3 to... | 11.2 - 28 | 6.3 to... |
| Viewing angle <small>typ. [degree]</small> | 50 | 60 | 50 | 60 | 50 | 60 |
| Peak wave length <small>typ. [nm]</small> | 635 | 635 | 565 | 565 | 586 | 585 |
| Reverse voltage <small>U_r typ. [V]</small> | 5 | 6 | 5 | 6 | 5 | 6 |