

Printmount Switch Short Stroke 12,7 mm



Weblinks

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

DATA LSG, LSH, LPH, LPS, LPV, SMS, PMS, MTG SWITCHES – MOMENTARY ACTION



BENEFITS

- Simple assembly, long life time, short lead time
- Reliable tactile feedback
- Various designs with 1/4 and 1/2 inch are possible with different heights
- Variable colour design and lettering
- Available for through hole and SMD assembly
- Tested to degree of protection IP 40 and IP 67

| | LSG/LSH/LPH LPS/LPV | SMS | PMS | MTG | | |
|---|----------------------------|--------------------|------------------|---------------------------|------------------|-----------|
| Electrical data | | | | | | |
| Contact material | | | | gold | silver | |
| Switching voltage max. [V] | 12 DC | 30 AC / 42 DC | 30 AC / 42 DC | max. 24 DC | max. 48 DC | |
| Switching current max. [mA] | 50 | 50 | 50 | max. 50 | max. 125 | |
| Rated breaking capacity [W] | | 0.12 | 0.12 | 0.48 | 2.40 | |
| Lifetime (at rated breaking capacity) | >10 ⁵ | >10 ⁵ | >10 ⁵ | >10 ⁶ | >10 ⁶ | |
| Initial contact resistance, new [mΩ] | max. 100 | <50 | <50 | <50 | <50 | |
| Initial contact resistance, after lifetime [mΩ] | max. 100 | <150 | <150 | <50 | <50 | |
| Insulation resistance [MΩ] | | >10 ⁴ | >10 ⁴ | >10 ⁶ | >10 ⁴ | |
| Contact bounce time [ms] | typ. 0.1 | typ. 0.15 | typ. 0.15 | typ. 0.1 | typ. 0.1 | |
| Mechanical data | | | | | | |
| Actuating force | IP 40 [N] | 1.6 ± 0.5 | 1.6 ± 0.4 | 1.6 ± 0.4 | 2.5 ± 0.5 | 2.5 ± 0.5 |
| | IP 67 [N] | | 1.8 ± 0.4 | 1.8 ± 0.4 | | |
| Contact travel [mm] | 0.25 + 0.2 / -0.1 | 0.35 ± 0.1 | 0.35 ± 0.1 | 0.45 ± 0.1 | 0.45 ± 0.1 | |
| End stop strength [N] | 50 N/3s | >100 | >100 | >50 | >50 | |
| Lifetime [operations] | >10 ⁵ | >10 ⁵ | >10 ⁵ | >10 ⁶ | >10 ⁶ | |
| Other data | | | | | | |
| Degree of protection | IP 40 | IP 40/IP 67 | IP 40/IP 67 | IP 40 | IP 40 | |
| Soldering method | IR-Reflow | IR-Reflow | Wave | Wave | Wave | |
| Soldering heat resistance | (LSH/LSG) IR Reflow [°C/s] | 240/20 | | | | |
| | (LPV/LPS/LPH) [°C/s] | 260/3 | | | | |
| | Jedec J-STD-020C | 245/5 | 248,5/1 | 248,5/1 | 248,5/1 | |
| Ambient temperature [°C] | -20 – +70 | -40 – +85 | -40 – +85 | -25 – +85 | -25 – +85 | |
| Storage temperature [°C] | -30 – +85 | -40 – +85 | -40 – +85 | -25 – +85 | -25 – +85 | |
| Cleaning agent proof | | Zestron | Zestron | | | |
| Flux - proof | | IP67 | IP67 | | | |
| Materials | | | | | | |
| Sealing membrane IP 67 | | VMQ | | VMQ | | |
| Contact material gold | | CuZn37 Ni + Au | | CuZn -3µm Ni +2µm Au | | |
| Contact material silver | * | | | CuZn -2.5µm Ag passivated | | |
| Terminals | * | CuZn37 - Sn | | | | |
| Socket | * | Thermoplast PA 4.6 | | Thermoplast PES | | |
| Actuator | * | Thermoplast PPS | | Thermoplast PC | | |
| Cover plate | * | X 12CrNi177 | | | | |

* on request

OVERVIEW MTG SWITCHES—MOMENTARY ACTION



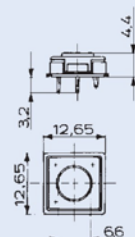
MTG

MTG

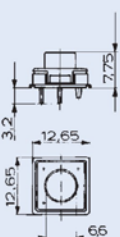
FEATURES

| Contact material | Ag | Au |
|---|--------------|--------------|
| PART NUMBER * | | |
| Models | | |
| Short actuator | 1241.1052 | 1241.1002 |
| Long actuator | 1241.1072 | 1241.1022 |
| Height variable | 1241.1082.xx | 1241.1032.xx |
| Overall height^h (with key cap) / Colour | | |
| 8.50 mm / yellow | 1 | 1 |
| 9.25 mm / orange | 2 | 2 |
| 10.00 mm / red | 3 | 3 |
| 10.75 mm / blue | 4 | 4 |
| 11.50 mm / green | 5 | 5 |
| 12.25 mm / grey | 6 | 6 |
| 13.00 mm / black | 7 | 7 |
| 13.75 mm / white | 8 | 8 |
| Additional key cap¹ | | |
| Overall height h / Colour | | |
| 14.50 mm / yellow + black | 11 | 11 |
| 15.25 mm / orange + black | 21 | 21 |
| 16.00 mm / red + black | 31 | 31 |
| 16.75 mm / blue + black | 41 | 41 |
| 17.50 mm / green + black | 51 | 51 |
| 18.25 mm / grey + black | 61 | 61 |
| 19.00 mm / black + black | 71 | 71 |
| 19.75 mm / white + black | 81 | 81 |

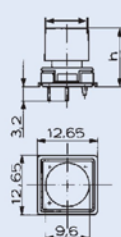
Dimensions short actuator:



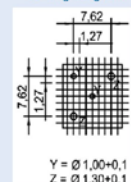
Dimensions long actuator:



Dimensions overall height:

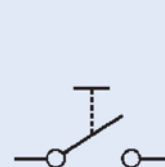


Drilling diagram:



Drilling for location pins
Drilling diagram
1/20° = 1,27 mm

Circuit diagram:



* X in the Part No. must be replaced by the desired version
¹ Starting with 14.50 mm the heights are achieved with an additional (second) key cap of black colour