

# DR SUB-SUBMINIATURE SWITCH

## DR sub-subminiature switch

Available with mushroom or panhead actuator for many

actuation possibilities, degree of protection IP40

- Models available up to 105°C operating temperature

- Nominal currents 5 mA up to 2 A at 12 V DC

- Auxiliary actuator on request

- High contact stability thanks to AuAg crosspoint contacts

- Mechanical life min.  $1 \times 10^6$  operations

- Various connection possibilities



## Technical specifications

<b>Series</b>	DR ①
<b>Contact configuration</b>	S.P.D.T.
<b>Contact gap</b>	< 3 mm
<b>Switching voltage (max.)</b>	12 VDC, to 60 V on request
<b>Switching current</b>	0.005 to 2 A DC
<b>Operating voltage</b>	Max. 75 cN without auxiliary actuator
<b>Total travel</b>	Approx. 2.0 mm
<b>Mechanical life</b>	Min. $1 \times 10^6$ operations
<b>Electrical life (max. load)</b>	Min. 100,000 operations
<b>Ambient temperature</b>	-40 to +85°C/105°C

## Materials

<b>Base</b>	PBT/PES
<b>Cover</b>	PBT
<b>Actuator</b>	PES/POM
<b>Auxiliary actuator</b>	Stainless steel
<b>Terminals</b>	CuZn silver-plated
<b>Contacts</b>	AuAg (Crosspoint)
<b>Degree of protection</b>	IP40
<b>Switch interior</b>	

## Electrical rating ②

<b>Model</b>	<b>Code</b>
0.005 – 2 A DC, 12 V	1

## Actuator type ③

<b>Model</b>	<b>Code</b>
Mushroom	P
Panhead	R

## Terminal type ④

<b>Terminal type</b>	<b>Code</b>
Solder terminal 2.5 x 0.5 mm, w/o location pins	AN
Solder terminal 2.5 x 0.5 mm, RH side location pins	AR
Solder terminal, straight, 2.5 x 0.5 mm, LH side location pins	AL
PCB terminal, straight, 0.6 x 0.5 mm, w/o location pins	BN
PCB terminal, straight, 0.6 x 0.5 mm, RH side location pins	BR
PCB terminal, straight, 0.6 x 0.5 mm, LH side location pins	BL
PCB terminal RH side, 0.6 x 0.5 mm, RH side location pins	CR
PCB terminal LH side, 0.6 x 0.5 mm, LH side location pins	DL

## Auxiliary actuator ⑤

<b>Model</b>	<b>Code</b>
Without auxiliary actuator	A0

## Generation of order code (example)

The order code consists of 5 parameters:

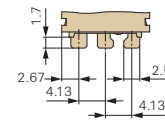
①	②	③	④	⑤
Series	Electrical rating	Actuator	Terminal type	Auxiliary actuator
DR = sub-sub-miniature switch	1 = 0.005–2 A DC, 12 V	P = Mushroom	AN = Solder terminal 2.5 x 0.5 w/o location pins	A0 = without auxiliary actuator

\* Not every configurable variant is available for order. Please contact us.

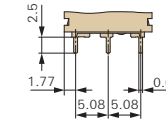
\* The final two digits of article numbers on commercial documents refer to the index of the respective drawing.

## Terminals

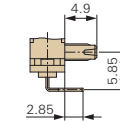
Solder terminal  
2.5 x 0.5 mm



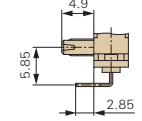
PCB terminal 0.6 x 0.5 mm



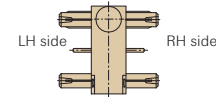
PCB terminal 0.6 x 0.5 mm  
RH side with location pins



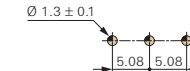
PCB terminal 0.6 x 0.5 mm  
LH side with location pins



Side definition

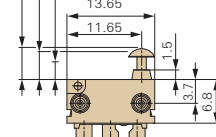


Drilling pattern for PCB terminal  
0.6 x 0.5 mm side and underside



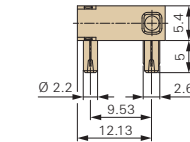
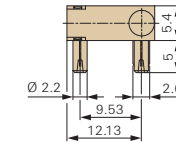
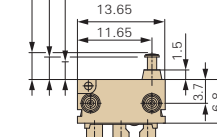
## With mushroom actuator

Rest position max. 5.0  
Operating point  $4.3 \pm 0.2$   
End position min. 2.95



## With panhead actuator

Rest position max. 4.2  
Operating point  $3.5 \pm 0.2$   
End position min. 2.15



Dimensions in mm

