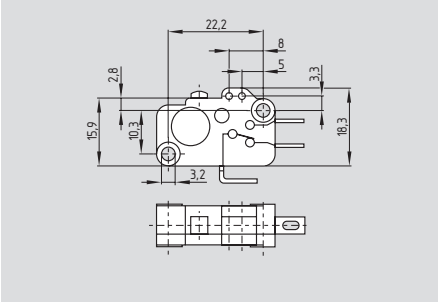
M 630



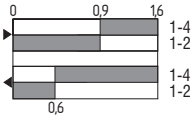
- Thermoplastic enclosure
- Very long life
- Change-over contact, single break
- Snap action with self-cleaning contacts
- Robust design
- High switching capacity
- Temperature resistant up to + 120 °C
- Soldering, spade or universal terminals
- Various actuators available

Technical data

Standards:	IEC/EN 60947-5-1
Enclosure:	glass-fibre reinforced thermoplastic
Actuator:	thermoplastic
Protection class:	IP 40, terminals IP 00 to EN 60529
Degree of pollution:	2
Contact material:	silver
Contact type:	change-over contact, single break
Switching system:	snap action, self-cleaning contacts
Termination:	soldering, plug or screw terminals
Cable section:	max. 1.5 mm² (incl. conductor ferrules)
U_{imp}:	4 kV
U_i:	250 V
I_{the}:	10 A
Utilisation category:	AC-15
I_e/U_e:	4 A / 230 VAC
Max. fuse rating:	10 A gL/gG D-fuse
Actuating force:	approx. 1.2 N ordering suffix -934: 0.4 N
Ejection force:	min. 1.2 N
Contact opening:	0.9 mm
Switchover time:	≤ 30 ms (with actuating speed of 10 mm/min at plunger)
Bounce duration:	≤ 5 ms
Ambient temperature:	– 30 °C ... + 120 °C
Mechanical life:	≥ 30 million operations
Switching frequency:	max. 10000/h
Actuating speed:	min. 1 mm/min
Repeat accuracy of switching points:	± 0.05 mm

Contact variants

Change-over contact with double break



Approvals

CE

Ordering details

M 630-11-①-②-③

No.	Replace	Description
①	2	Soldering terminal
	3	Plug terminals
	5	Universal terminal
②	934	Reduced actuating force 0.4 N
③	c	With magnetic arc extinguishing to switch DC circuits

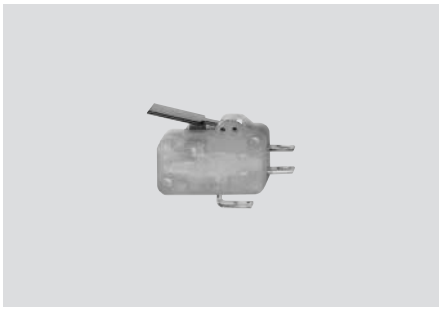
Note

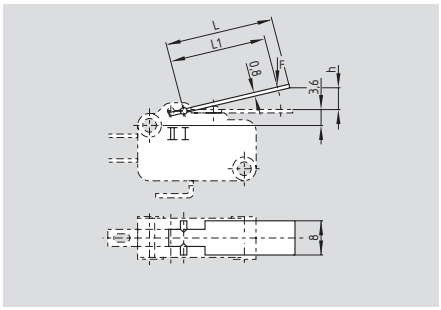
When mounting the switches, care must be taken to maintain electrical clearances to adjacent devices and metal parts. When using for DC circuits with arc extinguishing, this switch can be only used as NO or NC contact. Observe polarity!

The lever bearing position can be changed subsequently.

The contact/switch travel diagram relates to the plunger travel.

Actuator A





Actuator	Length L1 [mm]	Total length L [mm]
A17	17	20
A24	24	27
A30	30	33
A40	40	43
A50	50	53

Approvals

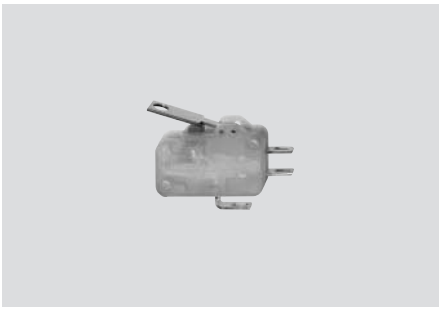
CE

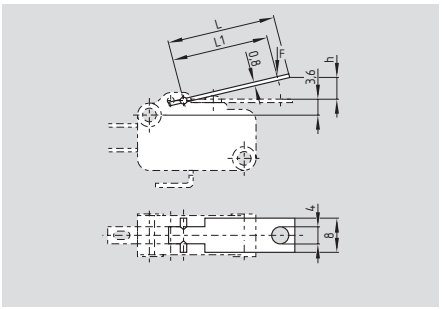
Ordering details

M 630-11-①-A ②-③-④-⑤

No.	Replace	Description
①	2	Soldering terminal
	3	Plug terminals
	5	Universal terminal
②	xx	Length L1 (mm) see table at the top
③		Lever bearing I
	II	Lever bearing II
④	934	Reduced actuating force 0.4 N
⑤	c	With magnetic arc extinguishing to switch DC circuits

Actuator B





Actuator	Length L1 [mm]	Total length L [mm]
B17	17	20
B24	24	27
B30	30	33
B40	40	43
B50	50	53

Approvals

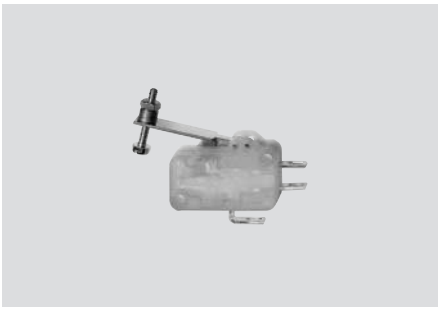
CE

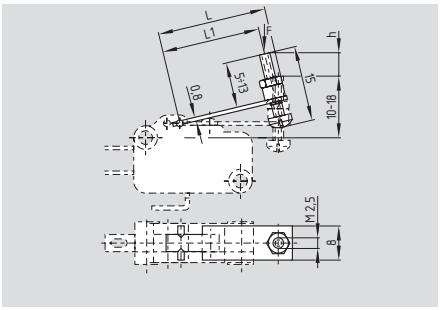
Ordering details

M 630-11-①-B ②-③-④-⑤

No.	Replace	Description
①	2	Soldering terminal
	3	Plug terminals
	5	Universal terminal
②	xx	Length L1 (mm) see table at the top
③		Lever bearing I
	II	Lever bearing II
④	934	Reduced actuating force 0.4 N
⑤	c	With magnetic arc extinguishing to switch DC circuits

Actuator D





Actuator	Length L1 [mm]	Total length L [mm]
D24	24	27
D30	30	33
D40	40	43
D50	50	53

Approvals

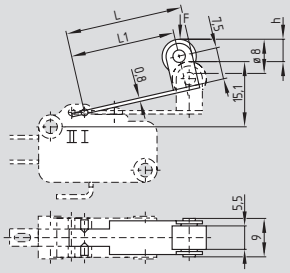
CE

Ordering details

M 630-11-①-D ②-③-④-⑤

No.	Replace	Description
①	2	Soldering terminal
	3	Plug terminals
	5	Universal terminal
②	xx	Length L1 (mm) see table at the top
③		Lever bearing I
	II	Lever bearing II
④	934	Reduced actuating force 0.4 N
⑤	c	With magnetic arc extinguishing to switch DC circuits

Actuator E



Actuator	Length L1 [mm]	Total length L [mm]
E17	17	20
E24	24	27
E30	30	33
E40	40	43
E50	50	53

Approvals

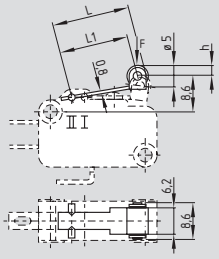
CE

Ordering details

M 630-11-①-E ②-③-④-⑤

No.	Replace	Description
①	2	Soldering terminal
	3	Plug terminals
	5	Universal terminal
②	xx	Length L1 (mm) see table at the top
③		Lever bearing I
	II	Lever bearing II
④	934	Reduced actuating force 0.4 N
⑤	c	With magnetic arc extinguishing to switch DC circuits

Actuator F



Actuator	Length L1 [mm]	Total length L [mm]
F	16.2	18.2

Approvals

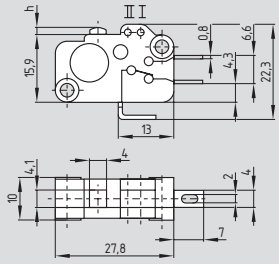
CE

Ordering details

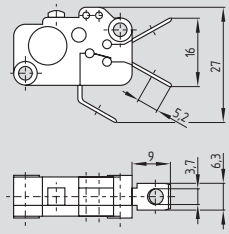
M 630-11-①-F-②-③-④

No.	Replace	Description
①	2	Soldering terminal
	3	Plug terminals
	5	Universal terminal
②		Lever bearing I
	II	Lever bearing II
③	934	Reduced actuating force 0.4 N
④	c	With magnetic arc extinguishing to switch DC circuits

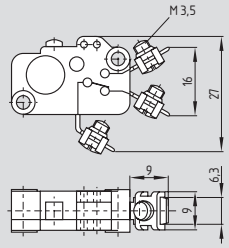
System components



Soldering terminal



Plug terminal

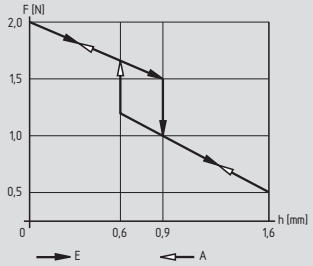


Universal terminals

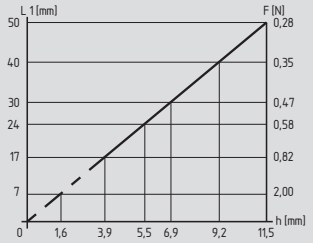
Ordering details

Soldering terminal	**ordering suffix -2**
Plug terminal	**ordering suffix -3**
Universal terminals	**ordering suffix -5**

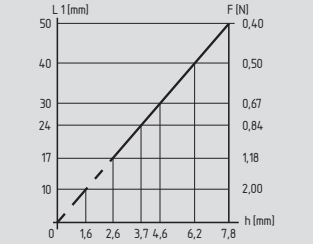
Force-Travel diagrams



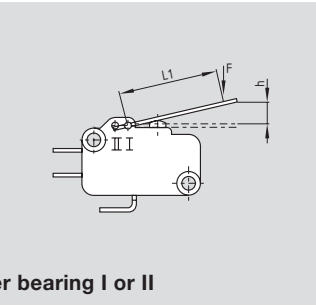
Force-Travel on plunger



Force-Travel on lever bearing I



Force-Travel on lever bearing II



Lever bearing I or II

Legend

L1: Actuating distance
h: Travel at actuator/plunger
F: Actuating force at actuator/plunger
E: Switch-on travel
A: Switch-off travel
S: Switching point = h / 1.78
Δ h: Differential travel = h / 5.33