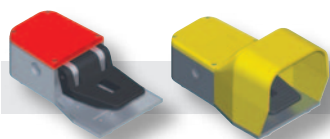
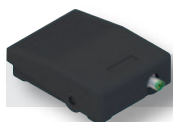


Foot switches



Foot switches page 130



Foot switches MP page 134

Foot switches



Foot switches **PS... / PD**

Double insulation - Plastic Casing IP65 - Description

APPLICATIONS

Foot switch operated machines such as: shearing machines, spinning machines, spinning lathers, machine tools, wrapping machines, riveting presses, etc.
Foot switches come in five operation formats:

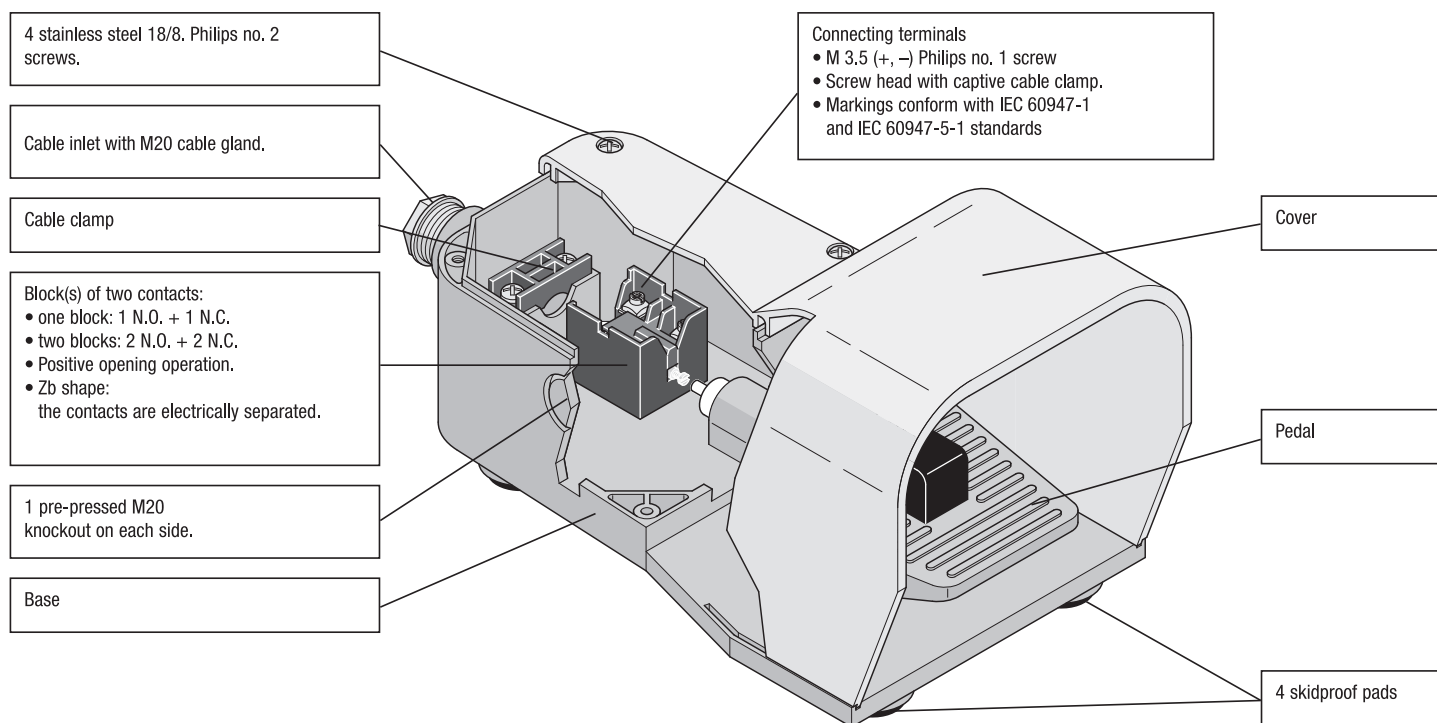
- **Free movement:** contact position follows pedal movement: actuated when the pedal is pushed down, released when pedal is in state of rest.
- **Foot switch locked in neutral position:** same operation as above, after unlocking the pedal with the end of the foot.
- **Foot switch latched in low position:** same operation as free movement, excepted that a state of rest is obtained only after having unlatched the pedal with the end of the foot.
- **Free movement with two-stage actuating force:** two different contact blocks are actuated with a different force on the lever.
- **Foot switch locked in neutral position with two-stage actuating force:** same operation as above, after unlocking the pedal with the end of the foot

DESCRIPTION OF THE SWITCH

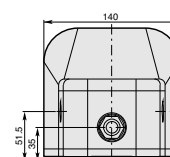
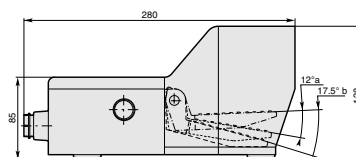
- **Dimensions:** 280 x 140 x 138mm.
- **Materials:** **Standard version (IMQ approved):** Base, cover and pedal made of shock resistant ABS material.
Self-extinguishing / VO (IMQ, UL, CSA approved): Base, cover and pedal made of Polycarbonate/ABS-V0.
Metal version / VO-M (IMQ, UL, CSA approved): Cover made in die cast aluminium, base and pedal made of Polycarbonate/ABS-V0.
- **Colour choice:** Grey base; grey, yellow or red cover.
- **Variations:** Grey base, half-red cover. Especially used for emergency stop function.

They comply with the requirements of European Directives (Low Voltage and RoHS) and are conform to European and International Standards.

The CE declaration of these products are available in the download section of website www.comepi.it or by writing to the following email address: tecnico@comepi.it
DDC05 - Foot Switches.



Dimensions (in mm)



Foot switches **PS... / PD**

Double insulation - Plastic Casing IP65 - Description

Symbols

Example:

P	S	1	2	1	1
---	---	---	---	---	---

 /

V0

Structure:

P					
---	--	--	--	--	--

 /

--

Type
S = Simple Foot Switch
D = Double Foot Switch

Electrical connection
1 = Pg 16 cable gland
2 = M20 cable gland

Devices
1 = Free movement of the lever
2 = Movement of the lever dependant of the safety device notch
3 = Device to maintain the lever in lowered down position
4 = Free movement with two-stage actuating force
5 = With safety device notch and two-stage actuating force

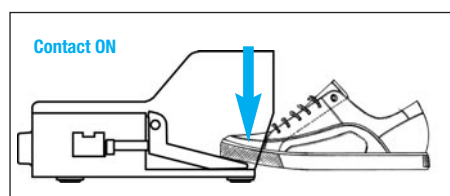
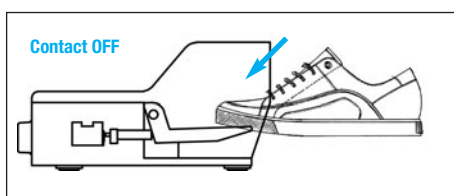
Contact blocks
1 - One (NO+NC) snap action contact
2 - One (NO+NC) slow action contact
3 - Two (NO+NC) snap action contacts
4 - Two (NO+NC) slow action contacts

Cover material
- = Shock resistant ABS (standard)
V0 = UL approved self-extinguishing
V0-M = UL approved with aluminium cover

Cover colour 1 = Yellow / 2 = Grey / 3 = Yellow + Grey (PD series)
4 = Red / 5 = Half red cover / 7 = Half yellow cover / 8 = Half grey cover

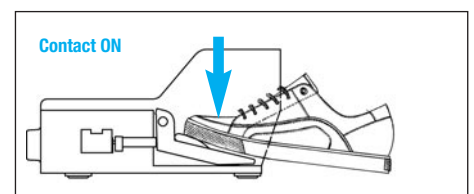
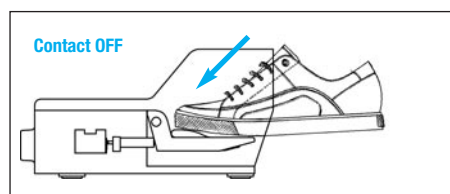
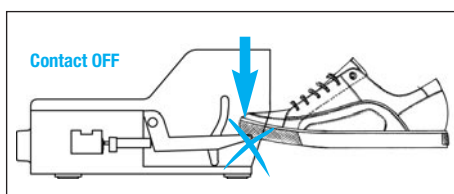
DEVICES

1: Free movement of the lever



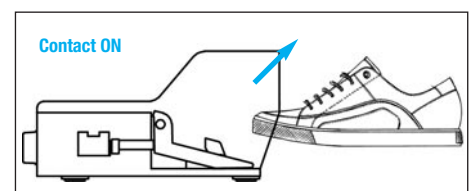
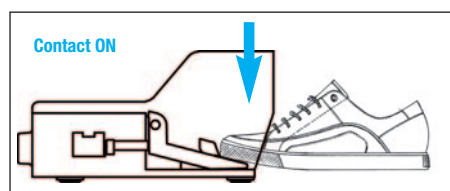
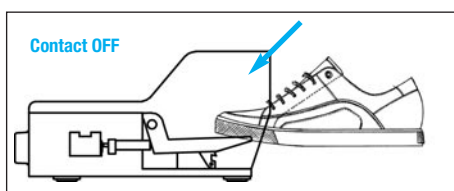
The lever can be actuated without any particular device.

2: Movement of the lever dependent of the safety device notch

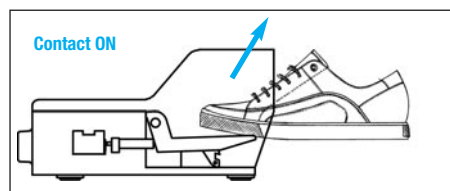
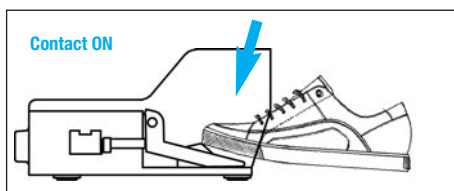


The pedal can be actuated only by lowering the safety lever fully inserting the foot, thus preventing any accidental actuation.

3: Device to maintain the lever in lowered position

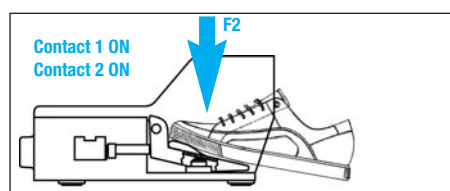
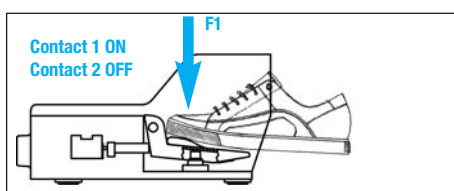


By pushing the lever the contact switches and the lever remains locked in lowered position.



Push the locking device in order to unlock the pedal actuator.
Once you release the lever the contacts return to their initial position.

4: Free movement with two-stage actuating force



By applying a light pressure F1 on the lever, the first contact block will be actuated while the second keeps in state.
An higher pressure F2 on the lever will switch also the second contact block.

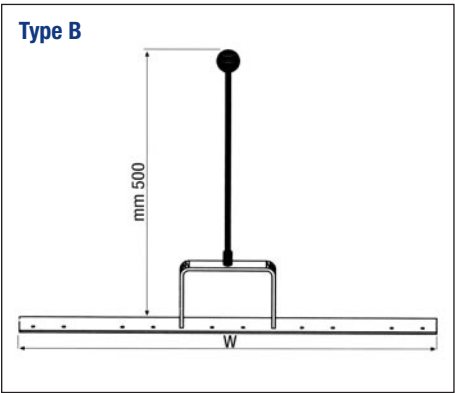
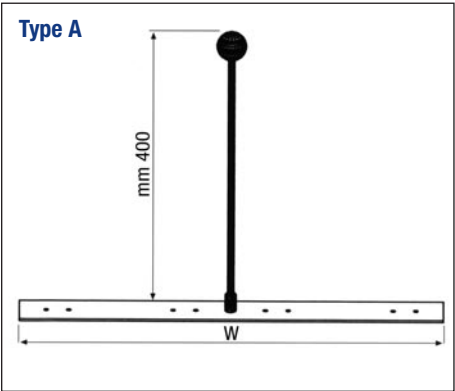
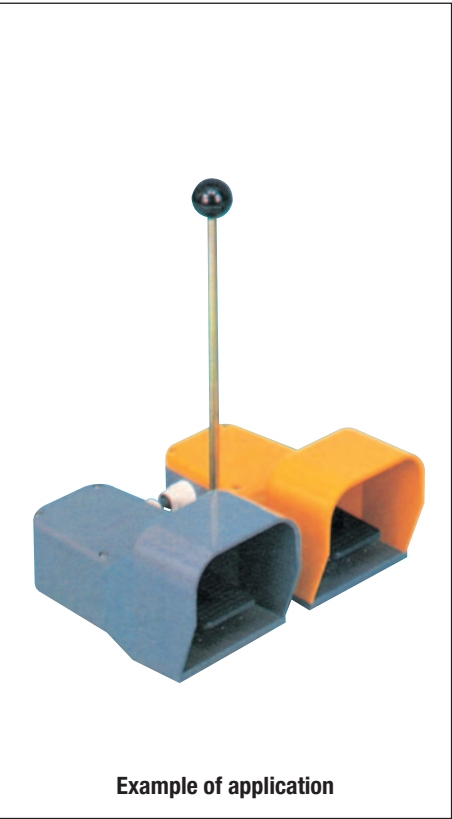
5: With safety device notch and two-stage actuating force

Same as above but the pedal can be actuated only by completely inserting the foot in the device.

Foot switches PS... / PD

Double insulation - Plastic Casing IP65 - Accessories

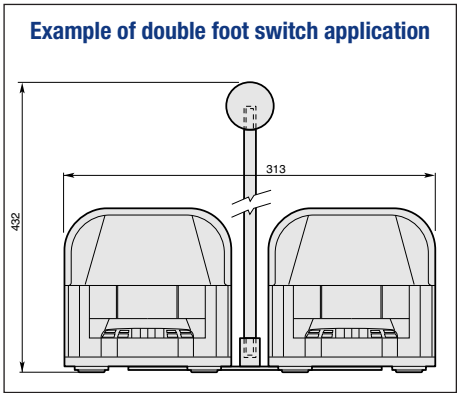
Carrying Rod Kits



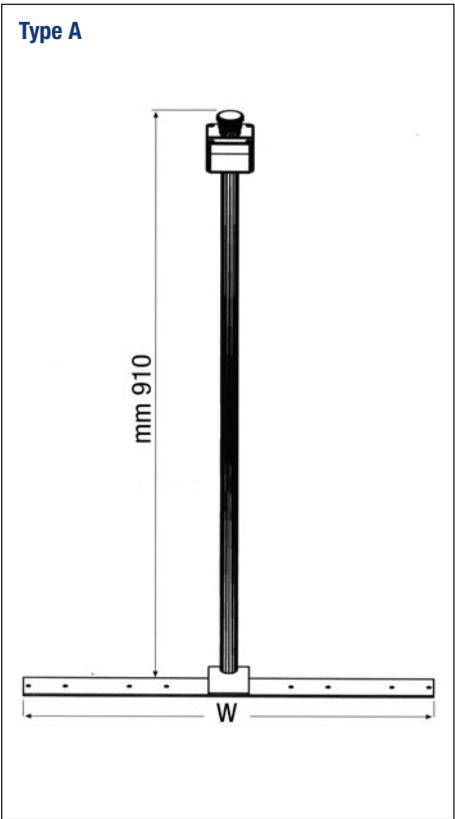
Order Code	Description	W (mm)	Type
PD1000	Max 2 Foot Switches*	225	A
PD1001	Max 3 Foot Switches*	405	B
PD1002	Max 4 Foot Switches*	580	A
PD1003	Max 5 Foot Switches*	745	B

* Foot Switches not included

Note: Each carrying rod kit includes necessary fixing screws and cable glands for the specified number of foot switches.



Metal Steel Frame



Order Code	Description	W (mm)
GR2025	For 1 foot switch only*	175
GR2026	Max 2 foot switches*	280
GR2027	Max 3 foot switches*	440
GR2028	Max 4 foot switches*	580

* Foot Switches not included

Attention!
Push button and plastic box not included:
please consult our “Control Units 022”
catalog.

Note: Each carrying rod kit includes necessary fixing screws and cable glands for the specified number of foot switches.

Foot switches **PS... / PD**

Two hand control station with support base

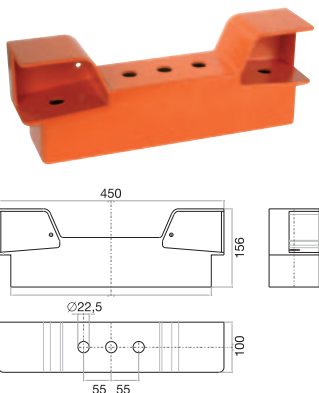


GR2030

Aluminium two hand control station

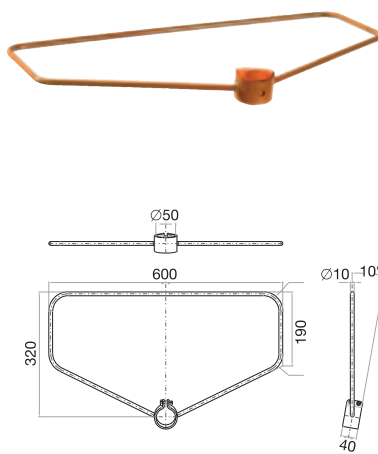
GR2031

Aluminium two hand control station suitable for adjustable support base



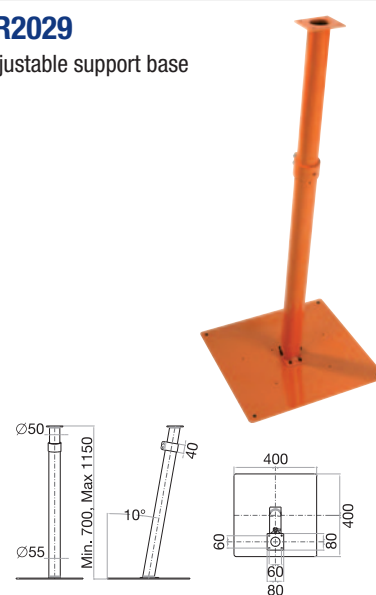
AN003PE

Protection ring



GR2029

Adjustable support base



Foot switches **MP...**

Plastic Casing IP65 - Description

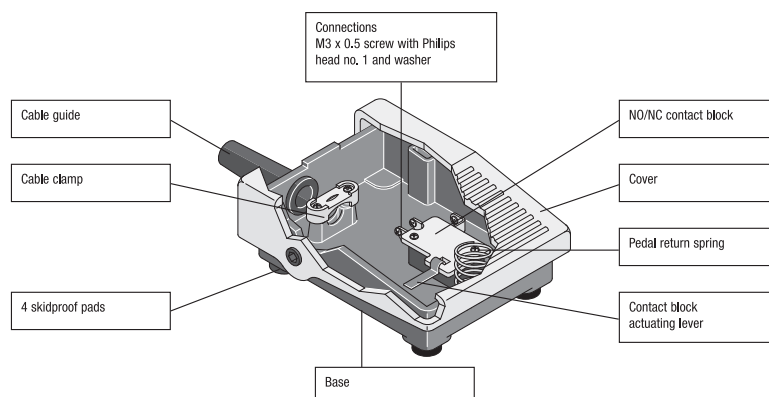
APPLICATIONS

Comepi foot switches of the MP series are plastic foot switches in mini design that besides their robust form and technical versatility are specially convincing for their functionality and ergonomic design. They can be applied on foot switch operated machines such as: shearing machines, spinning lathers, machine tools, wrapping machines, riveting presses, etc.

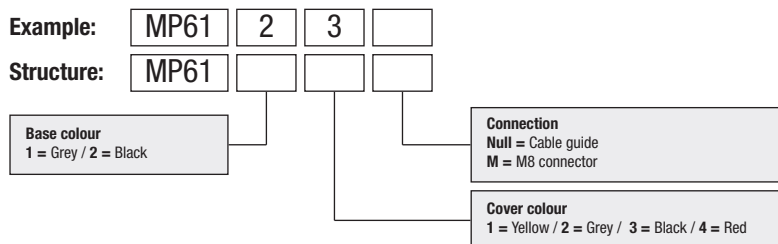
DESCRIPTION OF MP6... MINI FOOT SWITCHES

- **Dimensions:** 100 x 75 x 34 mm.
- **Materials:** cover and base made of self-extinguishing ABS.
- **Colour choice:** black or grey base; black, grey, yellow or red cover.

They comply with the requirements of European Directives (Low Voltage and RoHS) and are conform to European and International Standards. The CE declaration of these products are available in the download section of website www.comepi.it or by writing to the following email address: tecnico@comepi.it DDC05 - Foot Switches.

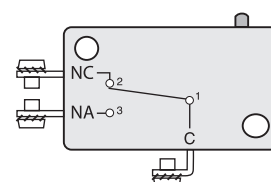
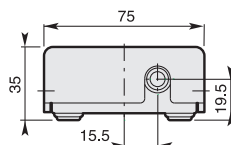
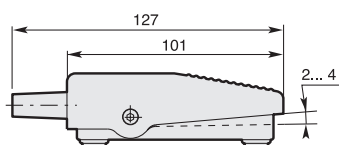


Symbols

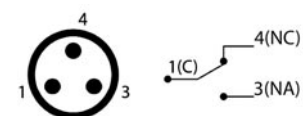
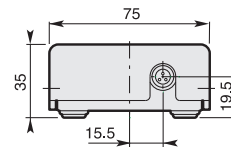
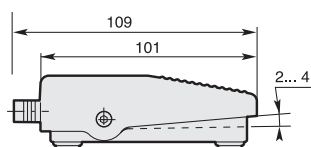


Dimensions (in mm)

NO / NC Contact Block



Connection by cable guide



Connection by M8 connector

Accessories



XX3D030SM

3m PVC cable with straight 3 poles M8 female connector

Foot switches

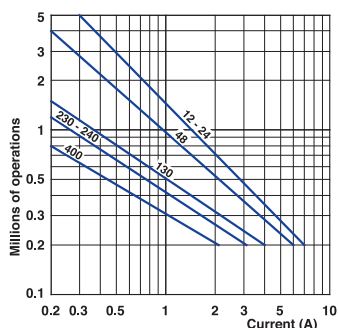
Technical Data

		Mini Foot Switch	Foot Switch with Cover
Standards		EN 61058-1	IEC 60947-5-1
Certifications - Approvals		UL - EAC - UKCA	IMQ - UL and CSA (upon request) - EAC - CCC - UKCA
Air temperature near the device			
– during operation	°C	– 25 ... + 70	– 25 ... + 70
– for storage	°C	– 30 ... + 80	– 30 ... + 80
Climatic withstand		–	according to IEC 60068-2-78 and salty mist according to IEC 60068-2-11
Shock withstand (according to IEC 60068-2-27 and EN 60068-2-27)	g	–	50g (1/2 sinusoidal shock for 11 ms) no change in contact position
Degree of protection (according to IEC 60529 and EN 60529)		IP 40	IP 65
Operating Torque	N.m	1.2	0,25
Operating angle	Degree	2 to 4	15
Cable inlet		Cable guide ø 6 mm; ø max. 8.5	M20

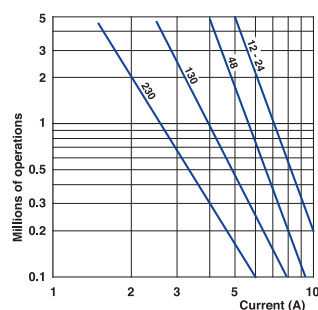
Electrical Data

Rated insulation voltage U_i	V	250 (50 for M8 connector)	690 (according to IEC 60947-1 and EN 60947-1) Degree of pollution 3
Rated impulse withstand voltage U_{imp} (according to IEC 60947-1 and EN 60947-1)	kV	1	6
Conventional free air thermal current I_{th} $\theta < 40\text{ °C}$	A	15 (4 for M8 connector)	10 (according to IEC 60947-1)
Short-circuit protection $U_e < 500\text{ V a.c.}$ - gG (gl) type fuses	A	10 (4 for M8 connector)	10
Rated operational current	A	3 (250 V a.c.) for cable guide versions	A 600 (according to UL 508 and CSA C22-2 n° 14)
	A	0.06 (230 V d.c.) for cable guide versions	Q 600 (according to UL 508 and CSA C22-2 n° 14)
AC-15 (according to IEC 60947-5-1)	24 V	4 for M8 connector	10
	240 V	–	6
	400 V	–	4
DC-13 (according to IEC 60947-5-1)	24 V	4 for M8 connector	6
	125 V	–	0.55
	250 V	–	0.4
Resistance between contacts	mΩ	30	25
Connecting terminals		M3 x 0.5 screw with Philips head no. 1 and washer	M3.5 (+, –) pozidriv with cable clamp
Positive opening operation (according to IEC 60947-5-1)		–	⊖
Connecting capacity	1 or 2 x mm ²	–	0.75 ... 2.5
Terminal marking		(Refer to contact block page 114)	According to IEC 60947-5-1
Mechanical durability	Millions of operations	10	30
Electrical durability	Operations	100 000	utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves below)

AC-15 - Snap action



AC-15 - Slow action



DC-13	Snap action	Slow action
	Power breaking for a durability of 5 million operating cycles	
Voltage 24 V	9.5 W	12 W
Voltage 48 V	6.8 W	9 W
Voltage 110 V	3.6 W	6 W

Notes

A large rectangular area filled with a fine grid of light gray lines, intended for writing notes. The grid is composed of 20 columns and 30 rows of small squares. The entire grid is enclosed within a thin blue border with rounded corners.

COMEPI AROUND THE WORLD

Comepi products are available all over the world, the company supplies 76 countries in 5 continents. Our focus on flexibility translates into the ability to create solutions where the market requires new application needs. Comepi has a network of agents and importers, supported by local distributors. This organization ensures global presence and support.



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CAT142-SC1022-PX