

12 CONTACT SWITCHES

Type 1P ceramic - Type 1V epoxyglass

Low current switches, minimum contact resistance.

Tweezers contact system.

Adjustable stop.

BCD version: 2 sectors switches, 10 positions, 30° index angle, COM-2-4-8 contacts. Available: natural BCD, complementary BCD.

Features: 1 pole 11 pos for each sector

2 poles5 pos for each sector3 poles3 pos for each sector4 poles2 pos for each sector

max 8 sectors

Non shorting contacts (shorting on demand).

Index angle: 30° (60° 90° on demand).

Index torque: 1 / 1.5Kgm (other values on demand).

HV version (on demand) available with insulated shaft glass-polyester (max 4 decks). Nylon screws (max 1 deck) on demand.

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

SPRING RETURN (see the picture)

from first and second position OR from the last to the last but one position. The system can't exceed 5 positions.

DOUBLE SPRING RETURN

from first and second position AND from the last to the last but one position. The system can't exceed 5 positions.

Type 1P single deck L = 23,5 mm. Add 11 mm each further deck. Type 1V single deck L = 21 mm. Add 8.5 mm each further deck. Special mounting: see form



printable page (PDF)

Current breaking capacity:		0.4A 220Vac / 1.3A 30Vdc (resistive load)
Contact resistance:		<5mohm (average initial value)
Insulation:	type 1P	1500Vac 2x10 ¹² ohm
	type 1V	1300Vac 100x10 ⁹ ohm
Life expectancy:		>300.000 switching operations (test current = 0.1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

Customize a standard switch, fill the form, send e-mail

Switches' materials and finishing







PBC TERMINALS 12 CONTACTS SWITCHES

Type 1VCS epoxyglass

Single PCB deck switches, low resistance tweezer contacts.

Adjustable stop.

The rivets of the contacts on type 1V are replaced here by special terminals turned on the lather: their mechanical strenght permit to place the switch on the PCB without other support.

The insulating material of 1VCS type get the switch suitable for a FR4 class PCB.

Features: 1 pole 11 pos for each sector 2 poles 5 pos for each sector

2 poles 5 pos for each sector 3 poles 3 pos for each sector 4 poles 2 pos for each sector

max 8 sectors



Index angle: 30° (60° 90° on demand).

Index torque: 1 / 1.5Kgm (other values on demand).

Te standard 19 mm measure, may be changed on request (17 mm min.).

Type 1V single deck L = 21mm. Add 8.5mm each further deck.

PCB holes Ø 1.5 mm.

HV version (on demand) available with insulated shaft glass-polyester (max 4 decks). Nylon screws (max 1 deck) on demand.

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

ADD WIRED DECKS (see the picture):

If you need more poles, we'll make multideck switches.

The standard 23 mm measure may be changed on demand (17 mm min.)

Special mounting: see form

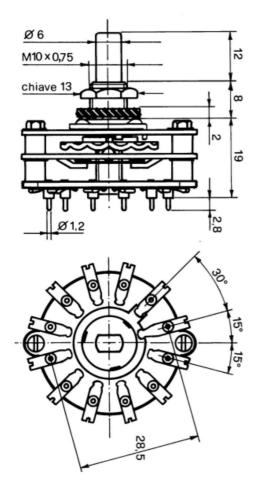


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Current breaking capacity:	0.4A 220Vac / 1.3A 30Vdc (resistive load)
Contact resistance:	<5mohm (average initial value)
Insulation:	1300Vac 100x10 ⁹ ohm
Life expectancy:	>300.000 switching operations (test current = 0.1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003



Customize a standard switch, fill the form, send e-mail





24 CONTACT SWITCHES

Type 2V epoxyglass

Signal and low power switches.

Sliding pad contact system.

Adjustable stop.

Features: 1 pole 24 positions, in each sector

2 poles
3 poles
4 poles
12 positions, in each sector
8 positions, in each sector
6 positions, in each sector

max 10 sectors

Shorting contacts only.

Index angle: 15° (30°, 60° or 90° on demand).

Index torque: 1,5 or 2Kgcm (other values on demand).

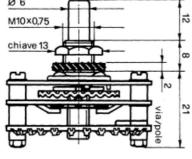
To measure 21 mm, add 8.5 mm for each further deck.

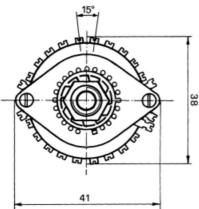
HV version (on demand) available with insulated shaft glass-polyester (max 4 decks). Nylon screws (max 1 deck) on demand.

WATERPROOF version (on demand)

an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

To measure 21 mm, add 8,5 mm each further deck Special mounting: see ${\color{red} \mathbf{form}}$





printable page (PDF)

Current breaking capacity:	1.3A 110Vac / 4A 30Vdc (resistive load)
Contact resistance:	<9mohm (average initial value)
Insulation:	1400Vac 200x10 ⁹ ohm
Life expectancy:	>200.000 operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

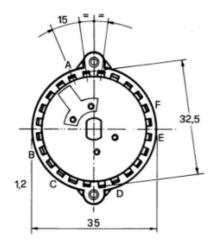
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Customize a standard switch, fill the form, e-mail

Switches materials and finishings







PBC TERMINALS 24 CONTACTS SWITCHES

Type **2VCS** epoxyglass

Single deck, low power signals switches.

ADD WIRED DECKS:

This switch can have one PCB deck only, but if you need more poles, we can make a multideck switches as well, using normal wired wafers.

You'll connect these wafers to your PCB by short stiff cables.

Sliding pad contact system.

Adjustable stop.

In these models, the pole lugs are enclosed in a single set of 24 lugs on 32.5 mm diameter: their position is indicated in the following list: (see also techinical drawnings in this page)

Features: 1 pole 23 positions, pole lug in A

2 poles 11 positions, pole lugs in A,D 3 poles 7 positions, pole lugs in A,C,E 4 poles 5 positions, pole lugs in A,B,D,F

Shorting contacts only.

Index angle: 15° (30°, 60° or 90° on demand).

Index torque: 1.5 / 2Kgcm (other values on demand).

The standard 20 mm measure may be changed on demand (18 mm min.)

PBC holes ø 1.4mm.

HV version (on demand) available with insulated shaft glass-polyester. Nylon screws (max 1 deck) on demand.

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

Special mounting: see form



Current breaking capacity:		1.3A 110Vac / 4A 30Vdc (resistive load)
Contact resistance:		<9mohm (average initial value)
	1400Vac	200x10 ⁹ ohm
Insulation:	1300Vac	100x10 ⁹ ohm
Life expectancy:		>200.000 operations (test current = 0,1 max value)

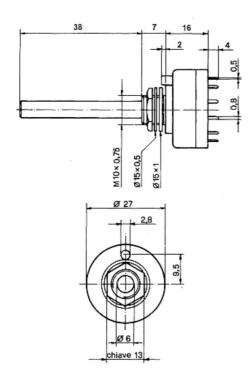
RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

Customize a standard switch, fill the form, e-mail







PLASTIC CASE SWITCHES PCB TERMINALS FOR SMALL HOUSEHOLD SETS

Type 3R112	1 pole, 12 positions, snap: 30°
Type 3R206	2 poles, 6 positions, snap: 30°
Type 3R108	1 pole, 8 positions, snap: 45°
Type 3R204	2 poles, 4 positions, snap: 45°
Type 3R106	1 pole, 6 positions, snap: 60°
Type 3R203	2 poles, 3 positions, snap: 60°
Type 3R104	1 pole, 4 positions, snap: 90°
Type 3R202	2 poles, 2 positions, snap: 90°

The standard types have non shorting contacts . Shorting version: please complete the type name with an $\bf S$. (3R112S, 3R206S, and so on)

Balanced roller contact system.

Internal adjustable stop, set in production. The customer must specify the number of positions required.

SPRING RETURN available, from first to second position, on 30° types only.

Standard index torque 08./1.2 Kgcm.

Light 0.5/0.7 or heavy 1.8/2.2 Kgcm index torque are optional.

Storage cap for contact protection.

PCB holes Ø 1.1mm.

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

Special mounting: see form



COMPLIANCE STATEMENT to EEC CE
Low Voltage Directive (EN 61058-1 standard)

Current breaking capacity:	0.8A 110Vac / 3A 30Vdc (resistive load)
Contact resistance:	<9mohm (average initial value)
Insulation between poles:	1200Vac 40x10 ⁹ ohm
Life expectancy:	>120.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

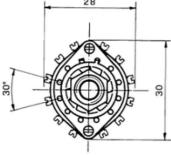
Customize a standard switch, fill the form, e-mail

Switches materials and finishings





2 M10 × 0,75 chiave 28



COMPACT 12 CONTACT SWITCHES

Type 4V epoxyglass, whit dust proof covers.

Small switches for low power signals.

Sliding pad contact system.

Keylock on demand.

Features: 1 pole 12 positions in each sector

> 2 poles 6 positions in each sector 3 poles 4 positions in each sector

max 6 sectors

Make before break (shorting) contacts only.

Adjustable stop.

Index angle: 30° (60° 90° on demand).

Index torque: 1,2 /1,7Kgm (other values on demand).

On single deck switch L = 23 mm add 7.5 mm each further deck.

WATERPROOF version (on demand)

an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

Special mounting: see form



Current breaking capacity:	1.3A 110Vac / 4A 30Vdc (resistive load)
Contact resistance:	<9mohm (average initial value)
Insulation:	1300Vac 150x10 ⁹ ohm
Life expectancy:	>200.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

Customize a standard switch, fill the form, e-mail

Switches materials and finishings





2,8 24

PCB TERMINALS, COMPACT 12 CONTACTS SWITCHES

Type 4VCS epoxyglass

Single deck, small switches for low power signals.

ADD WIRED DECKS (see the picture):

If you need more poles, we'll make multideck switches.

Sliding pad contact system.

Keylock on demand.

In these models, the pole lugs are enclosed in a single set of 12 lugs on 23.5mm diameter.

Their position is indicated in the following list (see also the drawing in this page):

Features: 1 pole 11 positions, pole lugs in A

2 poles 5 positions, pole lugs in A,C 3 poles 3 positions, pole lugs in A,B,D 4 poles 5 positions, pole lugs in A,B,D,F

See also type 4V.

The standard 20 mm measure may be changed on demand (18 mm min.)

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

Special mounting: see form



Current breaking capacity:	0.2A 110Vac / 0.4A 30Vdc (resistive load)
Contact resistance:	<9mohm (track resistance to be added)
Insulation:	900Vac 20x10 ⁹ ohm
Life expectancy:	>120.000 operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

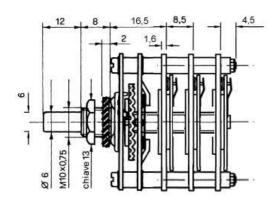
european directive 2002/95/CEE - 27/01/2003

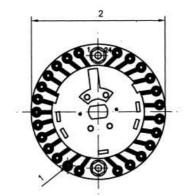
Customize a standard switch, fill the form, e-mail

Switches materials and finishings









PCB TERMINALS 24 CONTACTS SWITCHES

Type 5V epoxyglass FR4 class, with dust proof covers.

Multi deck switches for signals with sliding pad contact system.

Adjustable stop.

Features: 1 pole 24 positions in each sector

2 poles4 poles6 positions in each sector

Max number of sectors: 8

Non shorting contacts (break before make).

Index angle: 15° (30°, 60° or 90° on demand).

Index torque: 1.2 / 1.7Kgcm (other values on demand).

On single deck switch L = 23 mm. Add 8.5 mm each further deck.

PCB holesØ 1mm.

HV version (on demand) available with insulated shaft glass-polyester (max 4 decks). Nylon screws (max 1 deck) on demand.

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

Special mounting: see form



Current breaking capacity:	0.2A 110Vac / 0.4A 30Vdc (resistive load)
Contact resistance:	<9mohm (track resistance to be added)
Insulation between contancts and mass:	1300Vac 150x10 ⁹ ohm
Insulation between poles:	900Vac 20x10 ⁹ ohm
Life expectancy:	>120.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

Customize a standard switch, fill the form, e-mail

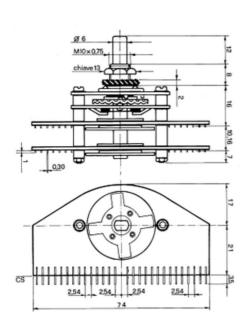
Switches materials and finishings

New switches on costumer specifications (big productions)

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IN LINE, PC TERMINALS 24 CONTACTS SWITCHES

Type **5VCS** epoxyglass FR4 class

Multi deck switches for signals with sliding pad contact system.

Adjustable stop.

Features: 1 pole, 24 positions in each sector

2 poles,4 poles,6 positions in each sector

max 8 sectors

Not shorting contacts (break before make).

Index angle: 15° (30°, 60° or 90° on demand).

Index torque: 1.5 / 2Kgcm (other values on demand).

PCB layout:

drawing here left, shows the poles type.

See on file 5.2 all contact arrangements.

Read pin numbers from left, track-side wafer, terminals down.

On 1 pole type connect all V terminals.

On 2 poles type, connect Va with Va and Vb with Vb.

On single deck switch L = 23 mm. Add 10.16 mm (4/10") each further deck.

PCB holes Ø 1.3 mm.

HV version (on demand) available

with insulated shaft glass-polyester (max 4 decks).

Nylon screws (max 1 deck) on demand.

WATERPROOF version (on demand)

an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

On single deck switch L = 23 mm. Add 10.16 mm (.400") each further deck. Special mounting: see form

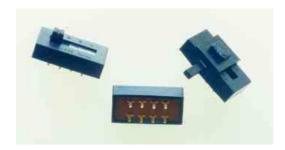
Contacts sequence IN LINE switches





Current breaking capacity:		0.3A 110Vac / 0.4A 30Vdc (resistive load)
Contact resistance:		<pre><9mohm (track resistance to be added)</pre>
	1300Vac	400x10 ⁹ ohm
Insulation:	900Vac	20x10 ⁹ ohm
Life expectancy:		>100.000 switching operations (test current = 0.1 max value)





8.13 5.08 5.08 8.13 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 3 3 4 1 1 3 5.08 5.08 5.08 = 11 1 1 2 3 4 2 1 3 1 5 5 5 12

PBC TERMINALS, 4 POSITION SLIDE SWITCHES

Type **6RCS14A**: vertical knob.

Type **6RCS14C**: horizontal knob.

Signal and low power switches.

Have rotating roller for both contact and detent system.

Features: 1 pole 4 positions (connecting a contact line) or multi-pole functions.

Shorting contacts only (make before break).

Special mounting: see form

printable page (PDF)

Current breaking capacity:	3A 110Vac / 6A 30Vdc (resistive load)
Contact resistance:	<9mohm (average initial value)
Insulation between near contacts:	800Vac 5x10 ⁹ ohm
Life expectancy:	>300.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

Customize a standard switch, fill the form, e-mail

Switches materials and finishings





PCB TERMINALS KEY OPERATED MINISWITCHES

Type 7VCS14 has nylon-glass moulded body, nickel-plated rotor.

High quality contact, signal switches.

Spring brush contact system.

Adjustable stop not available.

Features: 1 pole

2, 3, 4 positions and 4 positions non stop. Non shorting contacts (shorting not available).

Index angle: 90°.

Index torque: 0.4 / 0.6Kgm.

Key entry/withdrawal in all positions.

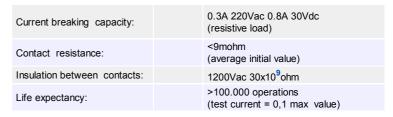
This product is ESD (electrostatic discharge) resistant.

Conforms to rule EN 61000-4-2 Insulation among key and contacts : on air 8000V in contact 4000V

PCB holes Ø 1.1mm.

Special mounting: see form

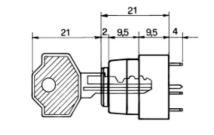


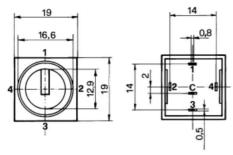


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Customize a standard switch, fill the form, e-mail

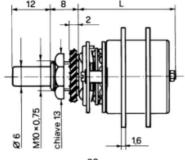
Switches materials and finishings

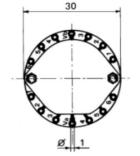
New switches on costumer specifications (big productions)

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PRINTED BASES 12 CONTACT SWITCHES

Type 8V epoxyglass FR4 class.

Multi deck switches for signals with sliding pad contact system.

Adjustable stop.

Keylock on demand.

Features: 1 pole 12 pos in each sector 2 poles 6 pos in each sector 3 poles 4 pos in each sector

max 8 sectors

Not shorting contacts only (break before make).

Index angle:: 30° (60° 90° on demand).

Index torque: 1.2 / 1.7Kgm.

On single deck switch L = 23 mm. Add 7.62 mm (3/10") each further deck.

Wiring holes Ø 1 mm.

HV version (on demand) available with insulated shaft glass-polyester (max 2 decks). Nylon screws (max 1 deck) on demand.

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

On single deck switch L = 23 mm. Add 7.62 mm (.300") each further deck. Special mounting: see form



printable page (PDF)

Current breaking capacity:	0.3A 110Vac 0.4A 30Vdc (resistive load)
Contact resistance:	<9mohm (tracks resistance to be added)
Insulation contacts/mass:	1300Vac 150x10 ⁹ ohm
Insulation between near poles:	900Vac 20x10 ⁹ ohm
Life expectancy:	>100.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

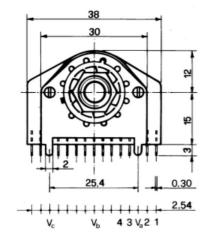
Customize a standard switch, fill the form, e-mail

Switches materials and finishings









IN LINE, PCB TERMINALS **12 CONTACTS SWITCHES**

Type 8VCS epoxyglass FR4 class.

Multi deck switches for signals with sliding pad contact system.

Adjustable stop.

Keylocks on demand.

Features: 1 pole 12 positions

> 2 poles 6 positions 3 poles 4 positions

max 8 sectors

Non shorting contacts (break before make),

shorting contacts on demand.

Index angle: 30° (60° 90° on demand).

Index torque: 1.2Kgcm (other values avaliable).

WATERPROOF version (on demand)

an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

On single deck switch L = 23 mm. Add 7.62 mm (.300") each further deck. Special mounting: see form

Contacts sequence IN LINE switches





Current breaking capacity:	0.3A 220Vac 0.4A 30Vdc (resistive load)
Contact resistance:	<9mohm (average initial value)
Insulation contacts/mass:	1300Vac 150x10 ⁹ ohm
Insulation between near poles:	900Vac 20x10 ⁹ ohm
Life expectancy:	>100.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

Customize a standard switch, fill the form, e-mail

Switches materials and finishings

New switches on costumer specifications (big productions)

1 di 2





M10×0,75 chiave 13 10,16 52

IN LINE, PCB TERMINALS **6 POLES-A-DECK SWITCHES**

Type 9VCS epoxyglass FR4 class.

Multi deck switches for signals with printed bases and spring brush contact system.

Adjustable stop.

Features: 1 pole, 12 pos in each sector

> 2 poles, 6 pos in each sector 3 poles, 4 pos in each sector 4 poles, 3 pos in each sector 6 poles, 2 pos in each sector

Per deck max 12 pos.

Not shorting contacts (break before make).

Index angle:: 30° (60°, 90°& on demand).

Index torque: 1,5 / 2Kgcm (other values on demand).

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

On single deck switch L = 23 mm. Add 10.16 mm (.400") each further deck. Special mounting: see form

Contacts sequence IN LINE switches





Portata in commutazione:	0.3A 110Vac / 0.4A 30Vdc (resistive load)
Contact resistance:	<mohm (track="" added)<="" be="" resistance="" td="" to=""></mohm>
Insulation contacts ground:	1500Vac 200x10 ⁹ ohm
Insulation between near poles:	1000Vac 90x10 ⁹ ohm
Life expectancy:	>150.000 witching perations (test current = 0.1 max value)

RohS Conformity: this product is compliant to

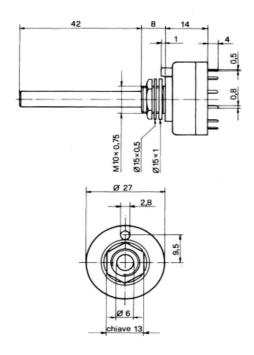
european directive 2002/95/CEE - 27/01/2003

Customize a standard switch, fill the form, e-mail

Switches materials and finishings







LOW COST, PCB MOUNTING 12 CONTACTS ROTARY SWITCHES

Type 10R111	1 pole, 11 positions, snap: 30°
Type 10R206	2 poles, 6 positions, snap: 30°
Type 10R304	3 poles, 4 positions, snap: 30°
Type 10R403	4 poles, 3 positions, snap: 30°

Not shorting contacts.

Shorting version: add the type name with an \$ (10R111S, 10R206S, 10R304S ecc...)

they have spring brush contact system.

Low current switches, glass-filled nylon moulded, Adjustable stop.

Storage contact protection cap.

Gold plating contacts only.

Inner inspectable.

Options:

shaft lenght up to 100 mm from PCB (with shaft extension), two pole switches output of poles in B and D location instead of standard A and C position (see drawing). Shaft toolings on customer's layout (see file 7.3). Tighting brass ring: increases the strengt to an axial pressure on the shaft, from standard 20 Kg to over 40 Kg. A trade-mark-less production, is available for retailers (10N types).

Operating torques:

medium spring (1 / 1.2 Kgcm) like standard light spring (0,6 / 0,8 Kgcm) on demand.

The standard 42 mm measure, may be changed on request.

PCB holes Ø 1.1 mm.

WATERPROOF version (on demand) an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

Special mounting: see form





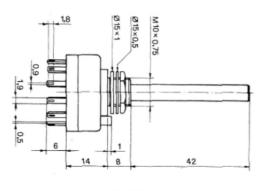
Current breaking capacity:	300mA 110Vac / 400mA 30Vdc (resistive load)
Contact resistance:	<10mohm (average initial value)
Insulation between contacts:	1200Vac 20x10 ⁹ ohm
Insulation between poles:	1300Vac 22x10 ⁹ ohm
Operating temperature:	-20 + 80 °C
Life expectancy:	>120.000 switching operations (test current = 0,1 max value)

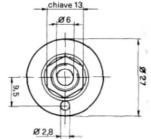
RohS Conformity: this product is compliant to

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LOW COST, SOLDER/WIRING TERMINALS 12 CONTACTS ROTARY SWITCHES

Type 11R111	1 pole, 11 positions, snap: 30°
Type 11R206	2 poles, 6 positions, snap: 30°
Type 11R304	3 poles, 4 positions, snap: 30°
Type 11R403	4 poles, 3 positions, snap: 30°

Not shorting contacts.

Shortable version: add the type name with an \$ (11R111S, 11R206S, 11R304S ecc...).

Low current switches, glass-filled nylon moulded, they have spring brush contact system.

Adjustable stop.

Gold platings contacts only.

Inner inspectable.

Options:

shaft lenght up to 100 mm from PCB (with shaft extension). Shaft toolings on customer's layout (see file).

WATERPROOF version (on demand)

an O-ring is mounted on the shaft inside the threated bushing and a rubber washer is placed rear side the customer panel.

Tighting brass ring:

increases the strengt to an axial pressure on the shaft, from standard 20 Kg to over 40 Kg.

A trade-mark-less production (11N types), is available for retailers.

Special mounting: see form





Current breaking capacity:	300mA 110Vac/400mA 30Vdc (resistive load)
Contact resistance:	<10mohm (average initial value)
Insulation between near contacts	1300Vac 22x10 ⁹ ohm
Insulation between poles	1200Vac 20x10 ⁹ ohm
Operating temperature	-20 + 80 °C
Life expectancy:	>120.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

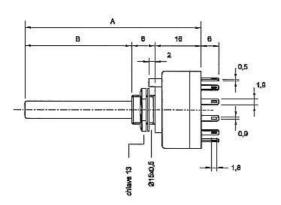
european directive 2002/95/CEE - 27/01/2003

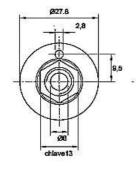
Customize a standard switch, fill the form, e-mail

Switches materials and finishings









PLASTIC CASE SWITCHES, WIRING TERMINALS, FOR SMALL HOUSEHOLD SETS

Type 13R112	1 pole, 12 positions, snap: 30°
Turne 42D200	0 0 000
Type 13R206	2 poles, 6 positions, snap: 30°
Type 13R108	1 pole, 8 positions, snap: 45°
Type ToleToo	i pole, o positions, snap. 45
Type 13R204	2 poles, 4 positions, snap: 45°
. , po 10120 .	2 poice, 1 positione, onap. 10
Type 13R106	1 pole, 6 positions, snap: 60°
	T ,
Type 13R203	2 poles, 3 positions, snap: 60°
T 400404	
Type 13R104	1 pole, 4 positions, snap: 90°
Type 13R202	2 notes 2 nositions onen: 00°
Type 13R202	2 poles, 2 positions, snap: 90°

Balanced roller contact system.

The standard types have non shorting contacts . Shorting version: please complete the type name with an $\bf S$. (13R112S, 13R206S, and so on).

Internal adjustable stop, set in production. The customer must specify the number of positions required.

Cabling specs on demand.

SPRING RETURN available, from first to second position, on 30° types only.

Standard index torque 08./1.2 Kgcm.

Light 0.5/0.7 or heavy 1.8/2.2 Kgcm index torque are optional.

PCB holes Ø 1.1 mm.

Special mounting: see form

printable page (PDF)

COMPLIANCE STATEMENT to EEC Low Voltage Directive (EN 61058-1 standard)

Current breaking capacity:	0.8A 110Vac / 3A 30Vdc (resistive load)
Contact resistance:	<9mohm (average initial value)
Insulation:	1200Vac 40x10 ⁹ ohm (insulation between poles)
Life expectancy:	>120.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

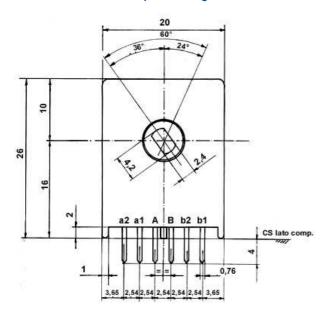
european directive 2002/95/CEE - 27/01/2003

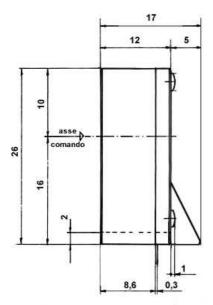
Customize a standard switch, fill the form, e-mail

Switches materials and finishings









PLASTIC CASE SWITCHES PCB TERMINALS 2 POLES, 2 POSITION

Type 14R202A	2 poles, 2 positions, Ø 6 mm shaft
Type 14R202C	2 poles, 2 positions, special key operated

Non shorting contacts.

Balanced roller contact system.

Index angle: 60°.

PCB holes Ø 1.1mm.

WP version (optional) , waterproof switch for automotive and industrial applicatic The switch has a nitrilic rubber ring between rotor and body. The contacts are encapsulated with epoxy resin.

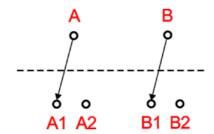
Customized shaft toolings (lenght, flats, slots) on demand: please fill the form



Current breaking capacity:	1.5A 230Vac 3A 30Vdc (resistive load)
Contact resistance:	<9mohm (average initial value)
Insulation between poles:	1200Vac 40x10 ⁹ ohm
Life expectancy:	>20.000 switching operations (test current = 0,1 max value)

RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003







leo esterno front mounting type 17,2 Jista A Jista A

MULTIDECK SWITCH-LOCKS

An arrangement avaliable on types 4V - 4VCS - 8V - 8VCS.

Whatever switch of these series can be supplied key operated instead of button.

All electrical and mechanical feature of the basic type, excepted adjustable stop, are confirmed.

KEYLOCKS available in 2 models: Outside type keylock has chrome plated housing, Inside type keylock has shortened zinc plated housing.

The rotor cap is stainless steel made.

Up to 4 entry/withdrawal key position, 90° spaced.

Index angle: 30° (60° 90°) as required by switch.

Switchlocks from stock have the same code: 50 different codes are available (100 pcs min. per code).

The two keys supplied have black plastic coated handle.

A key-link metal ring is available on demand.

On single deck switch L = 21 mm. Add 7.62 mm (.300") each further deck. Special mounting: see ${\bf form}$

ASSEMBLING:

1 - put the lock on the front panel (OUTSIDE type) or put it on an (INSIDE type), screw and tight the nut.

2 - fit in the switch to the keylock and tight the black clamp by the screw.



RohS Conformity: this product is compliant to

european directive 2002/95/CEE - 27/01/2003

Customize a standard switch, fill the form, e-mail

Switches materials and finishings

New switches on costumer specifications (big productions)

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