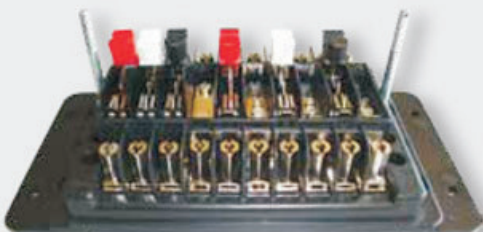




Test Switch KEY-S



USES AND FUNCTION

The KEY-S test switch is a safety product for use in panels, indirect measurement systems of centralized measurement sets. It is a simpler, faster and safer method for testing, calibrating and monitoring of electrical measurement systems, relays and other electrical equipment without the need of shutting down the systems. The KEY-S switches, in the open knife position, allow electrical connection isolation for equipment repair or monitoring. In the closed position the KEY-S keeps the electric circuits working within their normal ranges.

TECHNICAL FEATURES

Manufacturer: Konecny Ltda.
Model: KEY-S
Nominal Voltage: 600V
Nominal Current: 20A
Isolation Class: Maximum
Number of Poles: 10
Assembly: Override

www.konecny.com.br



Safety in Electrical installations

CONSTRUCTIVE FEATURES

BASE:

Injection moulded from tough plastic with excellent insulation able to resist high temperatures without deforming.

Can be supplied in the following versions:

- **Basic with or without centralized extended lateral fixing brackets.**
- **Centralized extended.**
- **Black or transparent extended for use with triple plug for connection to auxiliary equipment.**

MAIN COVER:

Mold injected in tough shock resistant transparent plastic. The cover is removable and has anti-fraud seals. Designed to protect the connection terminals and to provide more agility for the operator. It comes in versions with extended protective flanges, without protective flanges and with cut protective flanges allowing ample space for wiring. It has indelible identification including the manufacturer's name, product, model, year of manufacture, voltage and current.

VOLTAGE AND CURRENT ISOLATING SWITCH GROUPS

All the isolating switch groups are made of extra hard special brass with a spring action and all components have protective surface coating. They are very tough and have very good electrical conductivity. The voltage isolating switch groups are made up of simple knife switches with independent power circuit switching. These are separated by isolating flanges shaped at the base and with reinforced height in order to prevent any possibility of voltage arcing.

The current isolating switch groups are made up of knife switches that allow the short circuiting of the current transformer's secondaries, before the knife switches are completely open. Together with these isolating switches there is a test bridge for each current circuit, allowing the use of auxiliary equipment without the need to disconnect the wiring.

NEUTRAL POLE:

This is an urn key or blade made of extra hard special brass connecting the switch input and output terminals.

KNIFE SWITCHING KEYS

Injection moulded in tough insulating plastic, so as to protect the operator when touching the conductive parts. These are made with a design that offers a more ergonomic opening and can be configured with different colours, circuit labels and interlocking bolts for opening two knives at the same time.

CONNECTING TERMINALS

These are made in brass with coating treatment and excellent electric conductivity allowing a good safe connection between the conductors.

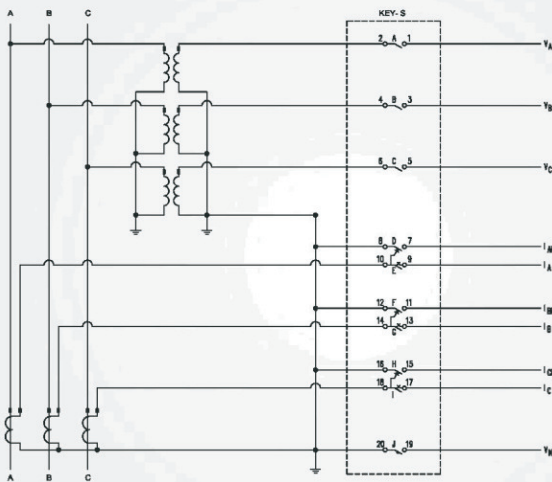
ASSEMBLY AND CONNECTION

The assembly of KEY-S switches is made from the front in panels and measuring groups. Its installation is designed so as to provide safety and ease of operation for the operators. Its is fixed into position by using four M5 screws that are located, after its installation, inside of the main cover that has a security seal against fraud.

The fixing of the conductors is made using M5 terminals, and can also use eyelet terminals (minimum internal diameter of 4.2mm and maximum external diameter of 11,5mm) or directly through stripped conductors by means of claw type conductor fixing plates in the KEY-S connection terminals.

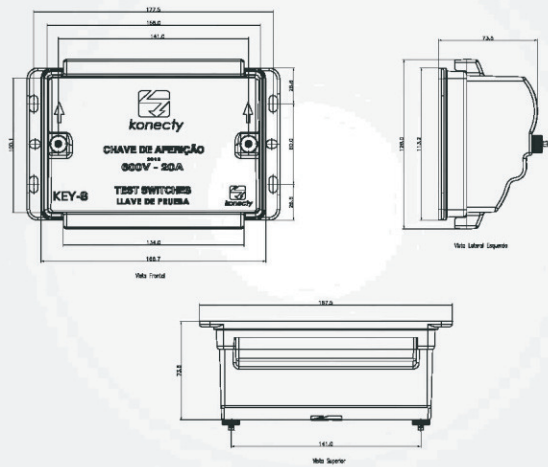
The tightening of the connections can be made using a conventional screwdriver or using 5/16" hexagonal pipe spanners. The KEY-S connection terminals also allow to the use of "banana" type plugs and in such a way obtain greater flexibility depending on the operator's needs.

Electrical Connection Design

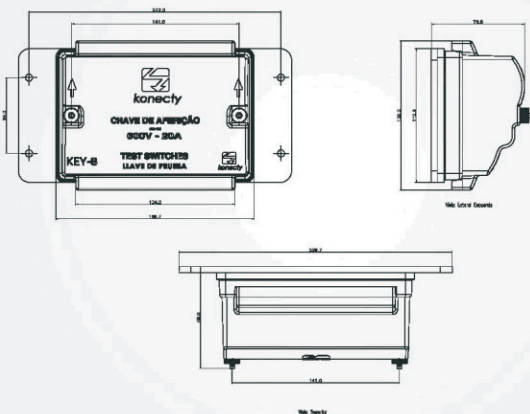


Contours and Dimensions

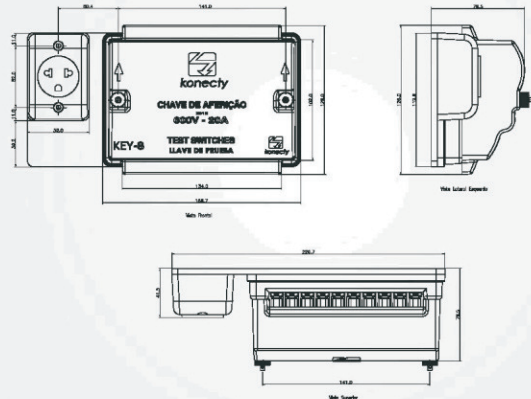
Key-S Switch: Standard base with lateral fixing flanges and a main cover with extended flanges



Key-S Switch: Extended centred base and main cover with extended flanges



Key-S Switch: Extended Base for use with triple socket and main cover with extended flanges



CONFIGURATION TABLE

Frontal View		Positioning of the Knife Keys										KONECTY CONFIGURATIONS			
		1	3	5	7	9	11	13	15	17	19	OVERRIDE TEST KEY			
		2	4	6	8	10	12	14	16	18	20				
Voltage		Current		2 Switches Knife											
0	2						C---C							KEY-S 001	
0	2		C---C											KEY-S 002	
0	2											C---C		KEY-S 003	
2	0					P	P							KEY-S 004	
2	0	P	P											KEY-S 005	
2	0											P	P	KEY-S 006	
Voltage		Current		2 Switches Knife											
3	0		P	P	P									KEY-S 007	
3	0					P	P	P						KEY-S 008	
3	0						P	P	P					KEY-S 009	
3	0									P	P	P		KEY-S 010	
Voltage		Current		4 Switches Knife											
4	0	P	P	P	PN									KEY-S 011	
4	0					P	P	P	PN					KEY-S 012	
4	0									P	P	P	PN	KEY-S 013	
0	4	C---C		C---C										KEY-S 014	
0	4				C---C									KEY-S 015	
0	4						C---C		C---C					KEY-S 016	
0	4								C---C		C---C			KEY-S 017	
Voltage		Current		6 Switches Knife											
8	0	P	P	P	P	P	P							KEY-S 018	
8	0			P	P	P	P	P	P					KEY-S 019	
8	0					P	P	P	P	P				KEY-S 020	
0	6	C---C		C---C		C---C		C---C						KEY-S 021	
0	6				C---C		C---C		C---C					KEY-S 022	
0	6						C---C		C---C		C---C			KEY-S 023	
Voltage		Current		7 Switches Knife											
3	4	P	P	P				C---C		C---C				KEY-S 024	
3	4		C---C		C---C	P	P							KEY-S 025	
3	4	P	P	P	C---C		C---C							KEY-S 026	
3	4	C---C		C---C						P	P	P		KEY-S 027	
Voltage		Current		8 Switches Knife											
0	8	C---C		C---C		C---C				C---C				KEY-S 028	
0	8			C---C		C---C		C---C		C---C		C---C		KEY-S 029	
0	8	C---C		C---C		C---C		C---C		C---C				KEY-S 030	
0	8	C---C				C---C		C---C		C---C		C---C		KEY-S 031	
8	0	P	P	P	P				P	P	P	P		KEY-S 032	
8	0	P	P	P	P	P	P	P	P	P	P	P		KEY-S 033	
8	0			P	P	P	P	P	P	P	P	P		KEY-S 034	
8	0	P	P	P	PN	P	P	P	PN					KEY-S 035	
Voltage		Current		9 Switches Knife											
1	8		PN	C---C		C---C		C---C		C---C		C---C		KEY-S 036	
1	8		C---C		PN	C---C(PA)		C---C(PA)		C---C(PA)		C---C(PA)		KEY-S 037	
1	8		C---C		C---C		C---C		C---C		C---C		PN	KEY-S 038	
Voltage		Current		10 Switches Knife											
4	6	P	P	P	PN	C---C(PA)		C---C(PA)		C---C(PA)				KEY-S 039	
4	6	P	P	P	TN	C---C		C---C		C---C				KEY-S 040	
4	6	P	P	P	PN	C---C		C---C		C---C				KEY-S 041	
4	6	P	P	P		C---C		C---C		C---C		P		KEY-S 042	
4	6	C---C		C---C		C---C		PN	P	P	P			KEY-S 043	
0	10	C---C		C---C		C---C		C---C		C---C		C---C		KEY-S 044	
10	0	P	P	P	P	P	P	P	P	P	P	P		KEY-S 045	
2	8	C---C		C---C		C---C		C---C		C---C		P	P	KEY-S 046	
2	8	P	P	C---C		C---C		C---C		C---C		C---C		KEY-S 047	

P = Voltage C---C = Current with short circuit C = Simple Current
 PA = Ammeter Bridge TN = Neutral Switch PN = Neutral Bridge

The configuration table represents the override test switch models that are commonly used on the market. However, any other configuration can be supplied after consulting the manufacturer both in relation to positioning and quantity of poles for current and voltage and in relation to the need for different colours for current and voltage poles.

VERSIONS AND OPTIONS

The versions of KEY-S switches shown in the configuration table above included the most commonly used models on the market. However, any other configuration can be supplied after consulting the manufacturer. Other options and customizing can be added to the basic models, as well as different colours for the poles, extended base, extended base for tri-polar, extended transparent base for tri-polar socket models, different main covers (with or without bracket, or with bracket open to protect the connections), test bridges, interlocking bolts for simultaneous activation of switches, etc.



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