

CERTIFICATE

Issued to:
Applicant:
Santon International B.V.
Hekendorpstraat 69
3079 DX Rotterdam, The Netherlands

Manufacturer/Licensee:
Santon International B.V.
Hekendorpstraat 69
3079 DX Rotterdam, The Netherlands

Product(s) : rotary switch-disconnector
Trade name(s) : SANTON
Type(s)/model(s) : XC150.20

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60947-3:2009;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 901095

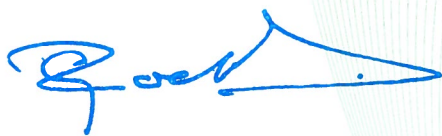
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

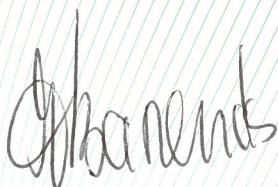
This certificate is issued on: 19 October 2015 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2184962.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



H.R.M. Barends
Certification Manager

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ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

product	:	rotary switch-disconnector									
trade name(s)	:	SANTON									
type(s)	:	XC150.20									
Rating	:	150.20; Un 1500 Vdc, In 20 A 100.50; Un 1000 Vdc, In 50 A									
rated insulation voltage (Ui)	:	1500 V ac									
conventional free air thermal current (Ith)	:	20 A and 50 A									
ratings/utilization category (Ue-Ie)	:	<table><tr><td></td><td></td><td><u>DC-21B</u></td></tr><tr><td>1500 V</td><td></td><td>20 A</td></tr><tr><td>1000 V</td><td></td><td>50 A</td></tr></table>			<u>DC-21B</u>	1500 V		20 A	1000 V		50 A
		<u>DC-21B</u>									
1500 V		20 A									
1000 V		50 A									
rated short-time withstand current (Icw)	:	rating 150.20 ; 240 A - 1 s 100.50; 600 A - 1 s									
rated short-circuit making capacity (Icm)	:	rating 150.20; 240 A 100.50; 600 A									
rated impulse withstand voltage (Uimp)	:	8 kV									
operational performance without current	:	category B 1700 operating cycles									
with current	:	300 operating cycles									
connection capacity	:	2,5 mm ² -10 mm ² flexible									
method of operation	:	independent operation, rotary,									
number of position of contacts	:	4 positions (0°, 90°, 180°, 360°)									
number of poles / type of contact composition	:	maximum 8 poles each circuit contained 2 contacts (one contact in the +(plus) and one contact in the - (min) pole									
degree of protection	:	IP20 or IP66 when mounted in an enclosure of ≥ IP 66 with gland of the shaft for panel mounting									
For use in ambient temperatures	:	-40 °C to 75°C									

Additional information

Additional technical data: see pages 3 to 11

TESTS**Test requirements**

EN 60947-3:2009

A1:2012

A1:2012/C1:2013

Test result

The test results are laid down in DEKRA test file 2184962.01.

Conclusion

The examination proved that all test requirements were met.

Tested by : M.T.H. van Gemen

A blue ink signature, likely of M.T.H. van Gemen, written in a cursive style.

Checked by : F.S. Strikwerda

A blue ink signature, likely of F.S. Strikwerda, written in a cursive style.**Factory locations**

Santon Holland B.V.
Hekendorpstraat 69, 3079 DX, Rotterdam
The Netherlands

Additional technical data:

Type designation: XC150.20D8E-D

For example:

		Description	Options
	XC	basic-type	
	150	DC nominal Voltage divided by ten	
	.	Separator	
	20	Nominal Current	
	D	Mounting type, Panel mounting	B, D, P, R
	8	DC poles	1, 2, 3, 4, 5, 6 ,7, 8, etc.

Knob types

A = standard black knob

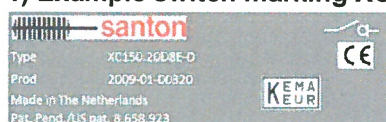
Marking of the switch-disconnector

The labels for a switch-disconnector with the specifications are shown in the production order. For the Reversed switches the labels are a little different from the rest because of the space available.

The labels for a switch-disconnector, with the specifications are shown in the production order

For example:

1) Example switch marking XC150.20D8E-D



EN-IEC60947-1&3		Ith 50A		PLOGR 2	
poles:	Ie	Ue		UI	
1-S	20A	150CV	DC-21B	150CV	
1-S	50A	100CV	DC-21B	150CV	

Contact numbers:

DC contacts	+1	/	+1
	-1	/	-1
	+2	/	+2
	-2	/	-2
	+3	/	+3
	-3	/	-3
	+4	/	+4
	-4	/	-4
	+5	/	+5
	-5	/	-5
	+6	/	+6
	-6	/	-6
	+7	/	+7
	-7	/	-7
	+8	/	+8
	-8	/	-8,
	ect		

The terminals for each string the plus and the minus are numeric character indicated,

Photo1:
Type XC....

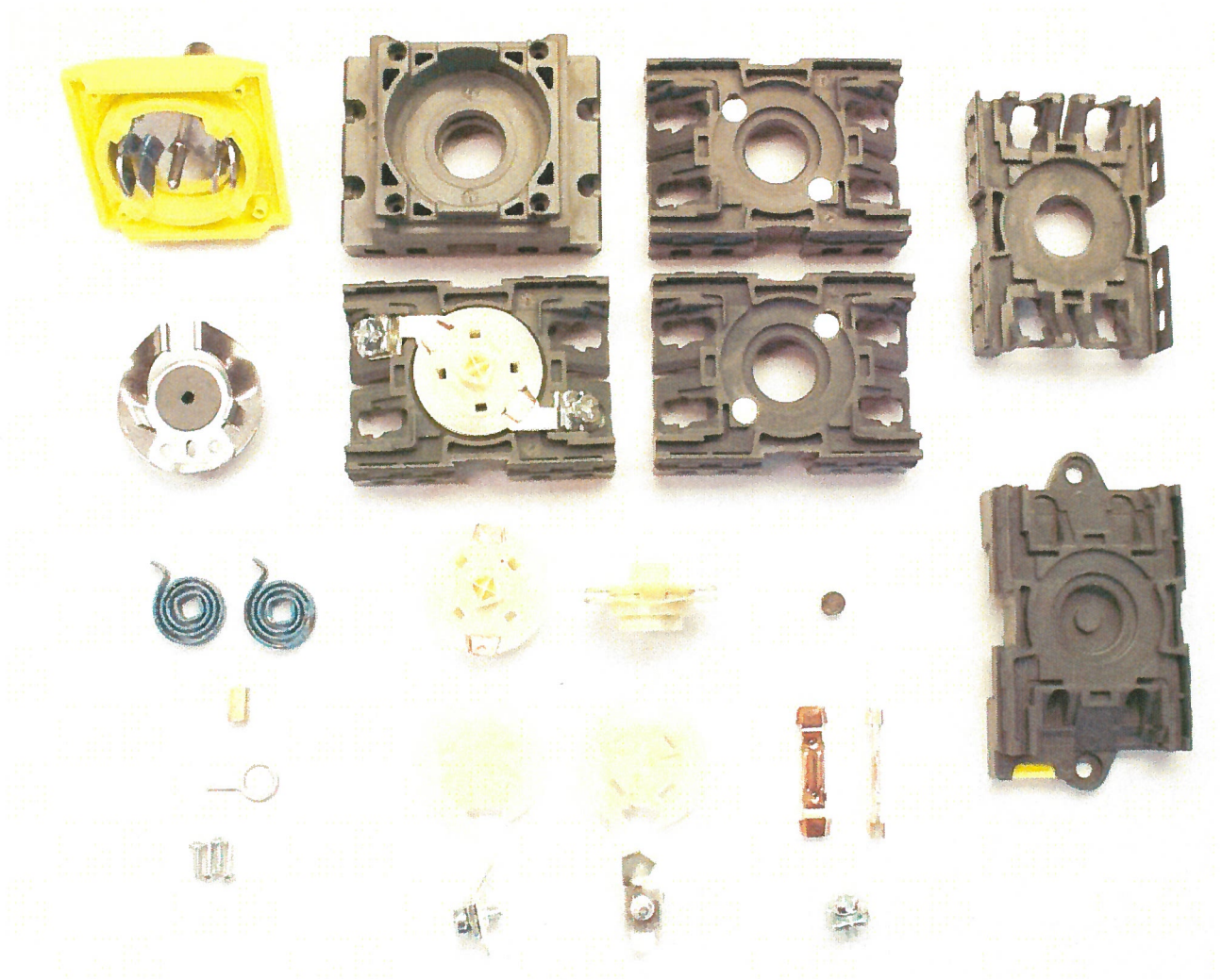
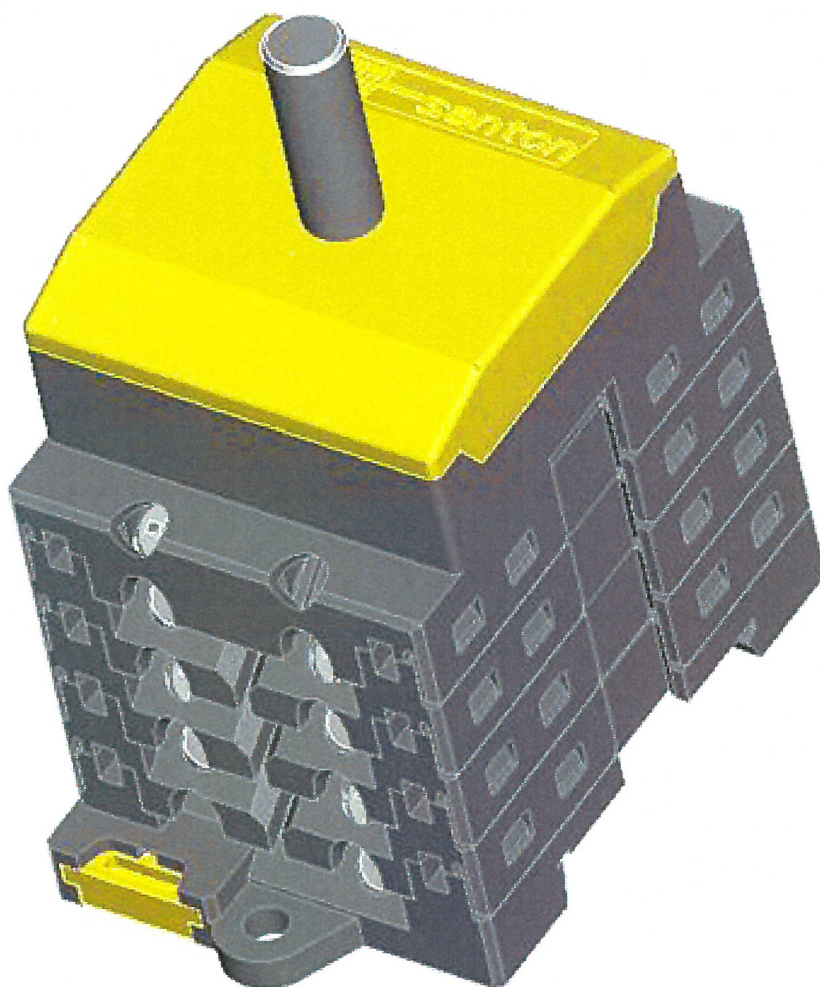
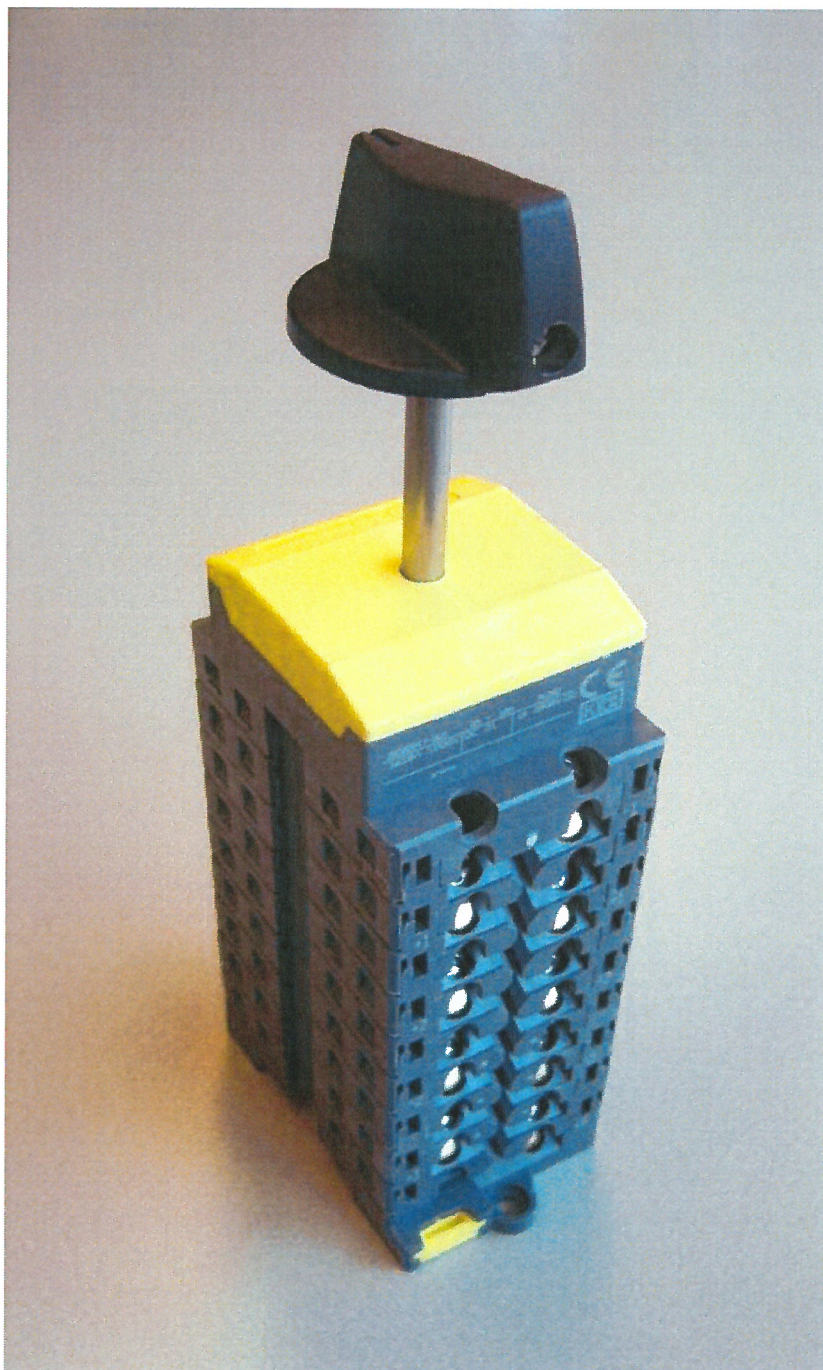


Photo 2:
Type XC....

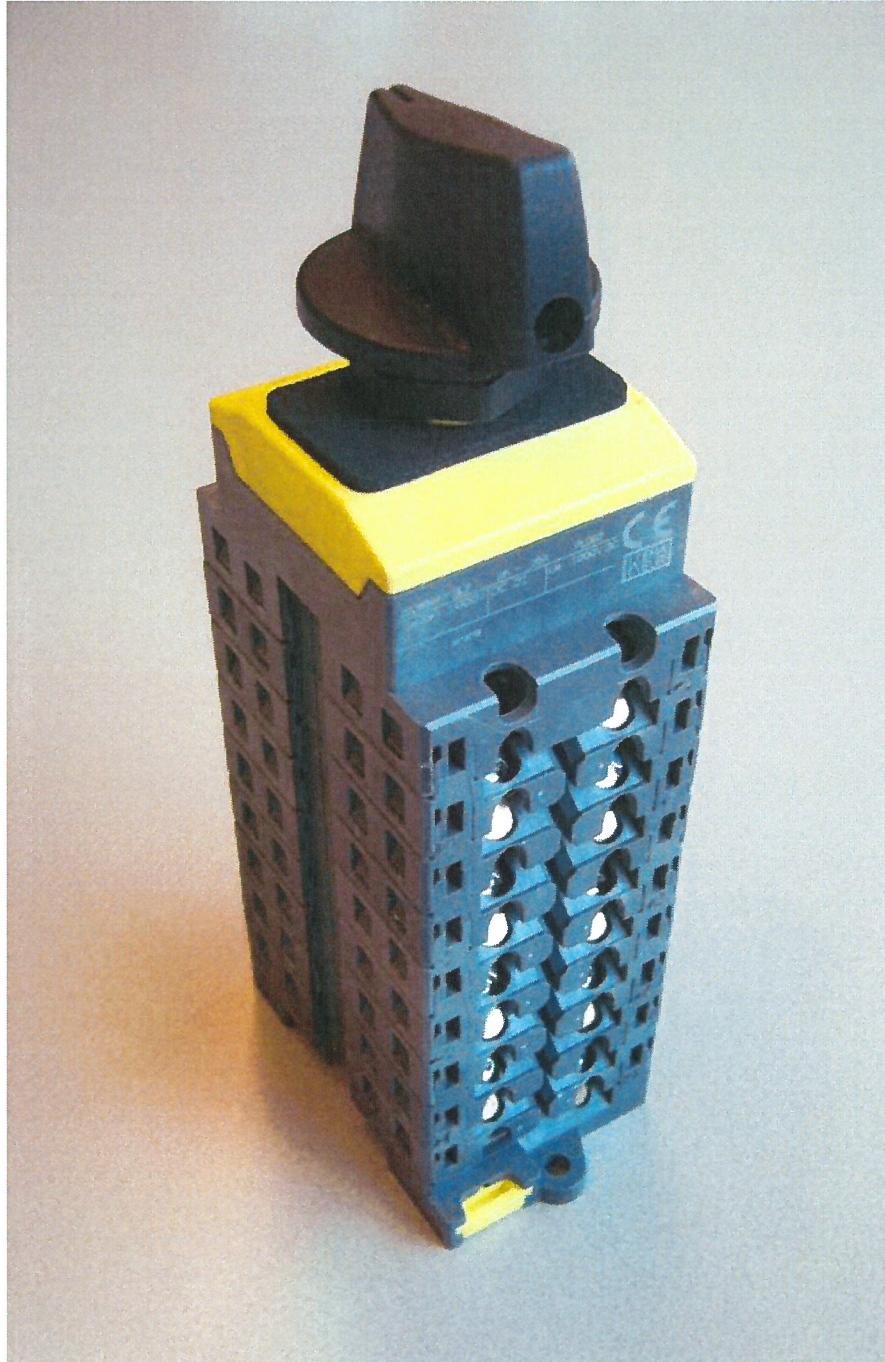


Mounting designs:

- Bottom mounting B-type



- Bottom and panel mounting: D type



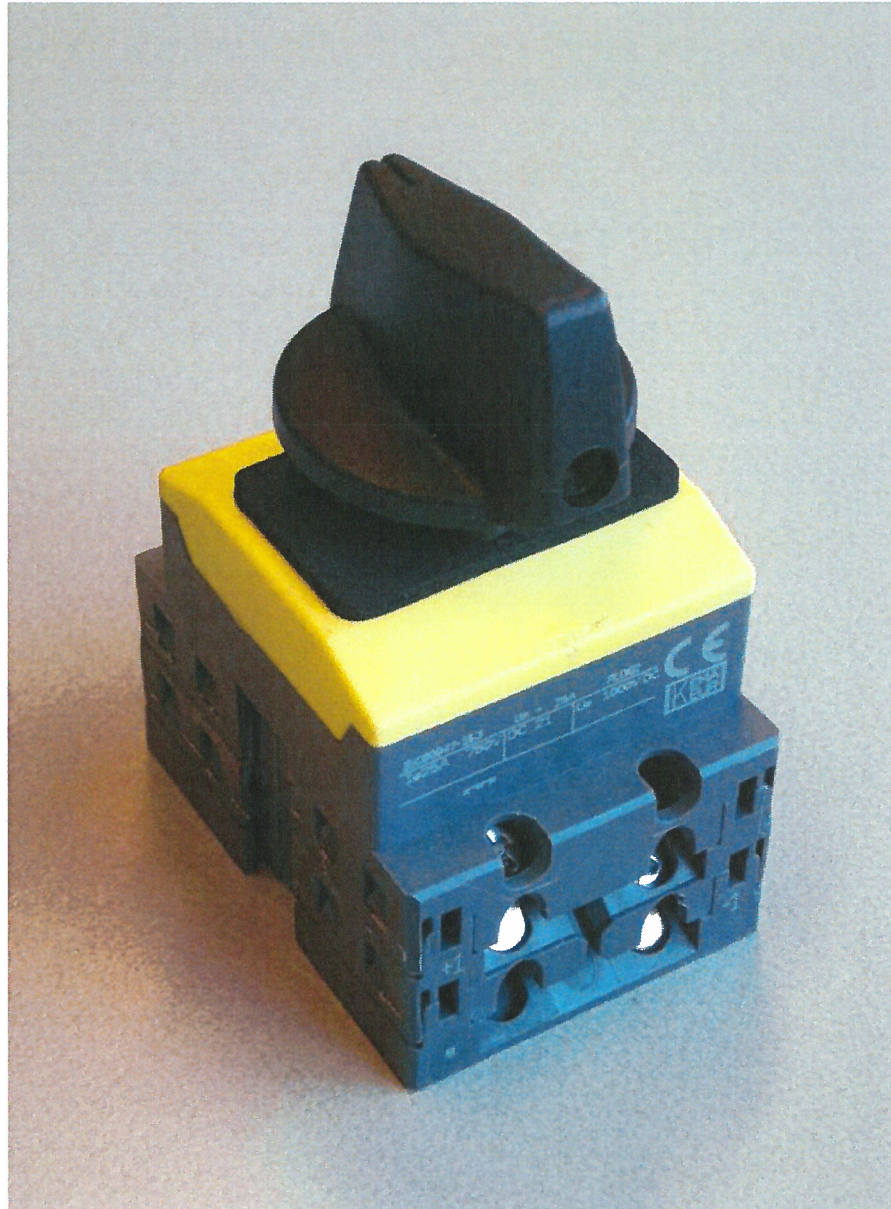
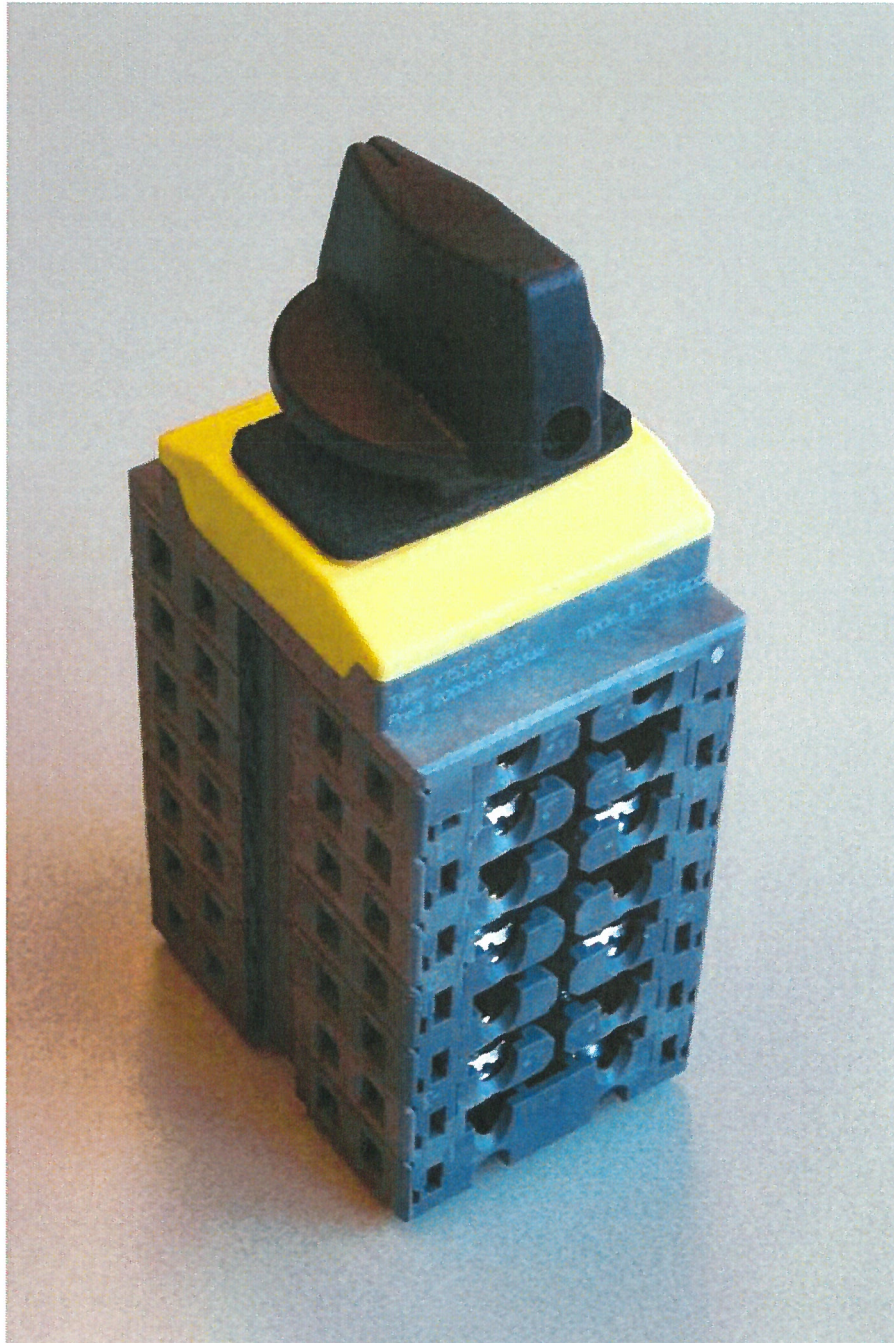
Panel mounting: P type

Photo R: reverse panel mounting: R type



Knob type E, F, G. and H**E type****F type****G type****H type**