SIEMENS

Data sheet



RONIS key-operated switch, 22 mm, round, plastic, Lock No. 421, with 2 keys, 2 switch positions O-I, latching, actuating angle 90° , 10:30h/13:30h, key removal O+I, with laser labeling, upper case

product type designation design of the product product type designation product type designation product tine Actuator Plastic, black, 22 mm Actuator Principle of operation of the actuating element product extension optional light source of the actuating element silver material of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element Any inscription, text in upper case marking of the actuating element Any inscription, text in upper case number of switching positions switch position for key distraction actuating angle clockwise olock make RONIS key number Product component front ring design of the front ring Material of the front ring material of the front ring protection class IP of the terminal Protection class IP of the terminal Shock resistance according to IEC 60068-2-27 for for railway applications according to EN 61373 Operating frequency maximum Technical service life (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Substance Prohibitance (Date) Row (10:30 h/13:30 h) Plastic, black, 22 mm Actuating, 90° (10:30 h/13:30 h) Plastic, black, 22 mm Actuating, 90° (10:30 h/13:30 h) Plastic Plastic Substance Plastic Sub	product brand name	SIRIUS ACT
product type designation product line Plastic, black, 22 mm Actuator principle of operation of the actuating element product extension optional light source of the actuating element actuating element sliver material of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element Any inscription, text in upper case unurber of switching positions switch position for key distraction actuating angle clockwise lock make RoNIS key number Front ring product component front ring design of the front ring material of the front ring design of the front ring Todor of the front ring Todor of the front ring Todor of the front ring Any inscription, text in upper case Position for key distraction O+I actuating angle clockwise 90° RoNIS Rey number 421 Front ring Product component front ring yes design of the front ring black General technical data Protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 Category 1, Class B Operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 8146-2 S	product designation	Key-operated switches
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Actuator principle of operation of the actuating element product extension optional light source color	product type designation	3SU1
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product extension optional light source color • of the actuating element shape of the actuating element couter diameter of the actuating element number of switching positions 2 switch position for key distraction actuating angle • clockwise 90° lock make RONIS key number 421 Front ring product component front ring design of the front ring material of the front ring standard material of the front ring plastic color of the front ring foreral technical data protection class IP • of the terminal degree of protection NEMA rating shock resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum color of the (switching cycles) typical reference code according to IEC 61346-2 Reference code according to IEC 61346-2 Silver silver metal silver s	Actuator	
color	principle of operation of the actuating element	latching, 90° (10:30 h/13:30 h)
• of the actuating element material of the actuating element shape of the actuating element shape of the actuating element couter diameter of the actuating element marking of the actuating element Any inscription, text in upper case number of switching positions 2 switch position for key distraction actuating angle • clockwise 90° lock make RONIS key number 421 Front ring product component front ring design of the front ring material of the front ring material of the front ring glastic color of the front ring protection class IP • of the terminal lip20 degree of protection NEMA rating shock resistance • according to IEC 60068-2-7 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 reference code according to IEC 81346-2 silver metal Key 29.5 mm Any inscription, text in upper case 90° 0+1 421 Fyes 80° 80° 80° 80° 80° 80° 80° 80	product extension optional light source	No
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shape of the actuating element outer diameter of the actuating element marking of the actuating element number of switching positions 2 switch position for key distraction actuating angle ● clockwise 90°	 of the actuating element 	silver
outer diameter of the actuating element marking of the actuating element number of switching positions 2 switch position for key distraction actuating angle	material of the actuating element	metal
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switch position for key distraction actuating angle	marking of the actuating element	Any inscription, text in upper case
actuating angle	number of switching positions	2
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lock make RONIS key number 421 Front ring product component front ring Yes design of the front ring Standard material of the front ring plastic color of the front ring black General technical data protection class IP IP66, IP67, IP69(IP69K) of the terminal IP20 degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g of or railway applications according to EN 61373 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 81346-2 S	actuating angle	
key number 421 Front ring product component front ring Yes design of the front ring Standard material of the front ring plastic color of the front ring black General technical data protection class IP of the terminal IP20 degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance of according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373 Category 1, Class B vibration resistance of according to IEC 60068-2-6 to 500 Hz: 5g of railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 81346-2 S	• clockwise	90°
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product component front ring design of the front ring material of the front ring color of the front ring black General technical data protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 81346-2 S	key number	421
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protection class IP of the terminal degree of protection NEMA rating shock resistance of according to IEC 60068-2-27 of or railway applications according to EN 61373 vibration resistance of according to IEC 60068-2-6 of or railway applications according to EN 61373 category 1, Class B vibration resistance of according to IEC 60068-2-6 of or railway applications according to EN 61373 category 1, Class B category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 81346-2 S	material of the front ring	plastic
protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 category 1, Class B vibration resistance for railway applications according to EN 61373 category 1, Class B	color of the front ring	black
● of the terminal degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance ● according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms ● for railway applications according to EN 61373 vibration resistance ● according to IEC 60068-2-6 10 500 Hz: 5g ● for railway applications according to EN 61373 category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 81346-2 S	General technical data	
degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000 reference code according to IEC 81346-2 S	protection class IP	IP66, IP67, IP69(IP69K)
shock resistance	of the terminal	IP20
according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000 reference code according to IEC 81346-2 S	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
for railway applications according to EN 61373 vibration resistance	shock resistance	
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 according to IEC 60068-2-6 for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000 reference code according to IEC 81346-2 S 	 for railway applications according to EN 61373 	Category 1, Class B
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mechanical service life (switching cycles) typical 1 000 000 reference code according to IEC 81346-2 S	 for railway applications according to EN 61373 	Category 1, Class B
reference code according to IEC 81346-2	operating frequency maximum	1 800 1/h
<u> </u>	mechanical service life (switching cycles) typical	1 000 000
Substance Prohibitance (Date) 10/01/2014	reference code according to IEC 81346-2	S
	Substance Prohibitance (Date)	10/01/2014

Ambient conditions	
ambient temperature	
 during operation 	-25 +70 °C
during storage	-40 +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%)
Installation/ mounting/ dimensions	
height	29.5 mm
width	29.5 mm
shape of the installation opening	round
mounting diameter	22.3 mm
positive tolerance of installation diameter	0.4 mm
mounting height	49.4 mm
installation width	29.5 mm
installation depth	25.4 mm
Certificates/ approvals	
Further information	

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-4DF11-0AA0-Z Y11

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-4DF11-0AA0-Z Y11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-4DF11-0AA0-Z Y11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-4DF11-0AA0-Z Y11&lang=en

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