## **SIEMENS**

## **Data sheet**



sensor switches, compact, 22 mm, round, plastic, black, momentary contact type, with holder, Operating voltage 24 V DC, M12 connector, 4-pole

product designation design of the product product type designation product line Plastic, black, 22 mm  Enclosure shape of the enclosure front number of command points 1  Actuator  principle of operation of the actuating element product extension optional light source color of the actuating element outer diameter of the actuating element outer diameter of the actuating element product component front ring product component front ring Plastic  Sange Plas	product brand name	SIRIUS ACT	
product type designation product line Enclosure shape of the enclosure front number of command points 1  Actuator principle of operation of the actuating element product extension optional light source No color of the actuating element black material of the actuating element outer diameter of the actuating element product component front ring No Holder material of the holder Plastic General technical data product function positive opening insulation voltage rated value 32 V degree of pollution type of voltage of the operating voltage protection class IP 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 10 500 Hz: 5g	product designation	Sensor switches	
product line Plastic, black, 22 mm  Enclosure shape of the enclosure front round number of command points 1  Actuator principle of operation of the actuating element capacitive product extension optional light source No color of the actuating element black material of the actuating element round outer diameter of the actuating element 53.6 mm  Front ring product component front ring No Holder material of the holder Plastic General technical data product function positive opening No insulation voltage rated value 32 V degree of pollution 3 type of voltage of the operating voltage Dc protection class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 10 500 Hz: 5g	design of the product	Compact unit	
Enclosure  shape of the enclosure front number of command points  Actuator  principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element outer diameter of the actuating element product component front ring  product component front ring  No  Holder  material of the holder Plastic  General technical data product function positive opening insulation voltage rated value degree of pollution type of voltage of the operating voltage protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-6 • according to IEC 60068-2-6  10 500 Hz: 5g	product type designation	3SU1	
shape of the enclosure front number of command points  Actuator  principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element outer diameter of the actuating element outer diameter of the actuating element product component front ring  Plastic  General technical data  product function positive opening insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage protection class IP degree of protection NEMA rating shape of the actuating element product function positive opening insulation voltage of the operating voltage protection class IP degree of protection NEMA rating shock resistance according to IEC 60068-2-6  according to IEC 60068-2-6  10 500 Hz: 5g	product line	Plastic, black, 22 mm	
number of command points  Actuator  principle of operation of the actuating element product extension optional light source No color of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element product component front ring product component front ring No Holder material of the holder Plastic  General technical data product function positive opening insulation voltage rated value degree of pollution type of voltage of the operating voltage protection class IP lege, IP67, IP69(IP69K) degree of protection NEMA rating shock resistance • according to IEC 60068-2-6 • according to IEC 60068-2-6  10 500 Hz: 5g	Enclosure		
Principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element outer diameter of the actuating element plastic shape of the actuating element outer diameter of the actuating element source diameter of the actuating element front ring product component front ring No Holder material of the holder General technical data product function positive opening insulation voltage rated value degree of pollution type of voltage of the operating voltage protection class IP 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  • according to IEC 60068-2-6  10 500 Hz: 5g	shape of the enclosure front	round	
principle of operation of the actuating element product extension optional light source  No  color of the actuating element black material of the actuating element outer diameter of the actuating element  Front ring product component front ring No  Holder material of the holder General technical data product function positive opening insulation voltage rated value 32 V degree of pollution type of voltage of the operating voltage protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-7 • according to IEC 60068-2-6  • according to IEC 60068-2-6  10 500 Hz: 5g	number of command points	1	
product extension optional light source color of the actuating element black material of the actuating element shape of the actuating element outer diameter of the actuating element Front ring product component front ring No Holder material of the holder General technical data product function positive opening insulation voltage rated value 32 V degree of pollution 3 type of voltage of the operating voltage protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-7 • according to IEC 60068-2-6  • according to IEC 60068-2-6  10 500 Hz: 5g	Actuator		
color of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element product component front ring product component front ring No Holder material of the holder Plastic  General technical data product function positive opening insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage protection class IP degree of protection NEMA rating shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-6  10 500 Hz: 5g	principle of operation of the actuating element	capacitive	
material of the actuating element shape of the actuating element outer diameter of the actuating element  Front ring product component front ring No Holder material of the holder General technical data product function positive opening insulation voltage rated value degree of pollution stype of voltage of the operating voltage protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • according to IEC 60068-2-6  10 500 Hz: 5g	product extension optional light source	No	
shape of the actuating element outer diameter of the actuating element  Front ring product component front ring No  Holder material of the holder  General technical data product function positive opening insulation voltage rated value degree of pollution type of voltage of the operating voltage protection class IP degree of protection NEMA rating shock resistance  • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance • according to IEC 60068-2-6  • according to IEC 60068-2-6  • according to IEC 60068-2-6  10 500 Hz: 5g	color of the actuating element	black	
outer diameter of the actuating element  Front ring  product component front ring  No  Holder  material of the holder  General technical data  product function positive opening insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  protection class IP  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  • according to IEC 60068-2-6  10 500 Hz: 5g	material of the actuating element	plastic	
product component front ring  No  Holder  material of the holder  Plastic  General technical data  product function positive opening insulation voltage rated value 32 V  degree of pollution 3 type of voltage of the operating voltage  protection class IP IP66, IP67, IP69(IP69K)  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	shape of the actuating element	round	
product component front ring  Holder  material of the holder  General technical data  product function positive opening  insulation voltage rated value  32 V  degree of pollution  3 type of voltage of the operating voltage  protection class IP  IP66, IP67, IP69(IP69K)  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	outer diameter of the actuating element	53.6 mm	
material of the holder  Plastic  General technical data  product function positive opening insulation voltage rated value 32 V  degree of pollution 3 type of voltage of the operating voltage protection class IP IP66, IP67, IP69(IP69K)  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	Front ring		
material of the holder  General technical data  product function positive opening insulation voltage rated value degree of pollution type of voltage of the operating voltage protection class IP lP66, IP67, IP69(IP69K) 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	product component front ring	No	
product function positive opening insulation voltage rated value 32 V  degree of pollution 3 type of voltage of the operating voltage protection class IP IP66, IP67, IP69(IP69K)  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	Holder		
product function positive opening insulation voltage rated value 32 V  degree of pollution 3 type of voltage of the operating voltage protection class IP lP66, IP67, IP69(IP69K) lP66, IP67, IP69(IP69K)  degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance	material of the holder	Plastic	
insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  protection class IP  IP66, IP67, IP69(IP69K)  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	General technical data		
degree of pollution  type of voltage of the operating voltage  protection class IP  IP66, IP67, IP69(IP69K)  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  category 1, Class B  vibration resistance  • according to IEC 60068-2-6  10 500 Hz: 5g	product function positive opening	No	
type of voltage of the operating voltage  protection class IP  IP66, IP67, IP69(IP69K)  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	insulation voltage rated value	32 V	
protection class IP  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	degree of pollution	3	
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	type of voltage of the operating voltage	DC	
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	protection class IP	IP66, IP67, IP69(IP69K)	
<ul> <li>according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms</li> <li>for railway applications according to EN 61373 Category 1, Class B</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6 10 500 Hz: 5g</li> </ul>	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13	
● for railway applications according to EN 61373  Category 1, Class B  vibration resistance  ● according to IEC 60068-2-6  10 500 Hz: 5g	shock resistance		
vibration resistance  • according to IEC 60068-2-6  10 500 Hz: 5g	<ul><li>according to IEC 60068-2-27</li></ul>	sinusoidal half-wave 15g / 11 ms	
• according to IEC 60068-2-6 10 500 Hz: 5g	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B	
	vibration resistance		
• for railway applications according to EN 61373 Category 1, Class B	<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g	
	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B	
operating frequency maximum 3 600 1/h		3 600 1/h	
reference code according to IEC 81346-2	reference code according to IEC 81346-2	S	
Substance Prohibitance (Date) 10/01/2014	Substance Prohibitance (Date)	10/01/2014	
operating voltage rated value 24 V	operating voltage rated value	24 V	
Auxiliary circuit	Auxiliary circuit		
design of the contact of auxiliary contacts electrical	design of the contact of auxiliary contacts	electrical	
number of NC contacts for auxiliary contacts 0	number of NC contacts for auxiliary contacts	0	

number of NO contacts for auxiliary contacts	1
Inputs/ Outputs	
number of outputs as contact-affected switching element as NO contact for signaling function instantaneous contact	1
Connections/ Terminals	
type of electrical connection	M12 connector, 4-pole
tightening torque of the screws in the bracket	1 1.2 N·m
Lamp	
type of light source	LED
Safety related data	
failure rate [FIT] with high demand rate according to SN 31920	213 FIT
MTTFd	1 071 y
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +70 °C
<ul><li>during storage</li></ul>	-40 +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)
Installation/ mounting/ dimensions	
fastening method	
<ul> <li>of modules and accessories</li> </ul>	Front plate mounting
height	40 mm
width	30 mm
shape of the installation opening	round
mounting diameter	22.3 mm
positive tolerance of installation diameter	0.4 mm
mounting height	19.6 mm
installation width	53.6 mm
installation depth	34 mm
Certificates/ approvals	
General Product Approval	Declaration of Conformity

Confirmation









Test Certificates other

Type Test Certificates/Test Report

Confirmation

Environmental Confirmations

## 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=3SU1200-1SK10-2SA0

Cax online generator

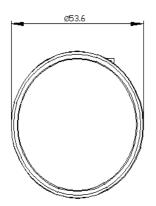
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1200-1SK10-2SA0

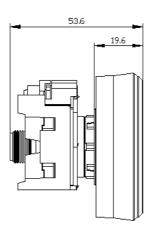
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

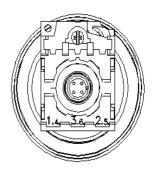
https://support.industry.siemens.com/cs/ww/en/ps/3SU1200-1SK10-2SA0

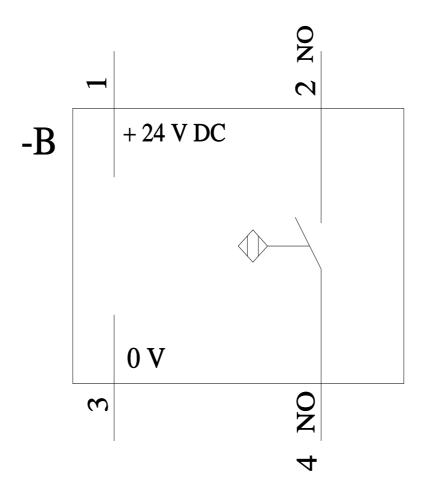
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