# **SIEMENS**

Product data sheet 3SE5112-0KD02

SIRIUS POSITION SWITCH METAL ENCLOSURE 40MM TO EN50041 DEVICE CONNECTION 1X (M20X1.5) 1NO/ 2NC SLOW-ACTION CONTACTS ROLLER PLUNGER W. STAINLESS STEEL ROLLER 13MM

### Manufacturer article number

- of the basic unit included in the scope of supply
- of the actuator head for position switches included in the scope of supply

3SE5112-0KA00

3SE5000-0AD02

General technical details:		
product designation		standard position switch
Insulation voltage		
• rated value	V	400
Degree of pollution		class 3
Thermal current	Α	6
Operating current		
• at AC-15		
• at 24 V / rated value	Α	6
• at 125 V / rated value	Α	6
• at 230 V / rated value	Α	1.5
• at DC-13		
• at 24 V / rated value	Α	3
• at 125 V / rated value	А	0.55
• at 230 V / rated value	Α	0.27
Continuous current		
• of the slow DIAZED fuse link	Α	6

• of the C characteristic circuit breaker  • of the C characteristic circuit breaker  • typical  • typical  • twith contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 (typical)  • at A C-15 / at 230 V / typical  • at A C-15 / at 230 V / typical  • at A C-15 / at 230 V / typical  • at A C-15 / at 230 V / typical  • at A C-15 / at 230 V / typical  • besign of the contact element  • twith contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  • Repeat accuracy  • mm 0.05  Repeat accuracy  • mm 0.05  Repeat accuracy  • brawlikary contacts  • for auxiliary contacts  • fo	a of the guide DIAZED force link	^	10
Mechanical operating cycles as operating time  • typical  Electrical operating cycles as operating time  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1006 / typical  • at AC-15 / at 230 V / typical  • at AC-15 / at 230 V / typical  Electrical operating cycles in one hour  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  * Repeat accuracy  mm	of the quick DIAZED fuse link	A	10
		А	1
Electrical operating cycles as operating time   with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1024, 3RT1026, 3RT1026 / typical   10,000,000     at AC.15 / at 230 V / typical   100,000     Electrical operating cycles in one hour   with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026   6,000     Separat accuracy   mm   0,05     Design of the contact element   0			
• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical         10,000,000           • at AC-15 / at 230 V / typical         100,000           Electrical operating cycles in one hour         • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0,05           Design of the contact element         mm         0,05           Number of NC contacts         2         contacts           • for auxiliary contacts         2         contacts           • for auxiliary contacts         1         contacts           • resistance against vibration         0.35 mm / 5g         contacts           • during operating         *C         2585         contacts           • during operating         *C         2585         contacts           • for dimensions         EN 50041         c	··		15,000,000
3RT1026 / typical         100,000           Electrical operating cycles in one hour         6,000           with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0,05           Design of the contact element         slow-action contacts           Number of NC contacts         2           • for auxillary contacts         2           • for auxillary contacts         1           Resistance against vibration         0,35 mm /5g           Resistance against vibration         0           • during storage         °C         -2585           • during storage         °C         -2585           • during storage         °C         -2585           • for dimensions         metal           Width of th			
Electrical operating cycles in one hour  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  Design of the contact element  Number of NC contacts  • for auxiliary contacts  • for diving operating  • during operating  • during operating  • for dimensions  • for dimensions  • for dimensions  Width of the sensor  • for dimensions  Width of the sensor  • for dimensions  which is the housing of the switch head  • for the housing of the switch head  metal  • auxiliary contacts  • for dimensions  • for auxiliary contacts  • for auxiliary conta			10,000,000
• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0.05           Design of the contact element         slow-action contacts           • for auxiliary contacts         2           Design of the switching function         positive opening           Number of NC contacts         1           • for auxiliary contacts         1           Resistance against vibration         0.35 mm / 5g           Resistance against vibration         30g / 11 ms           Ambient temperature         • during operating         *C         -25 85           • during operating         *C         -25 85         -40 90           Product specification         • EN 50041	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy mm 0.05  Besign of the contact element 500 slow-action contacts  *for auxiliary contacts  *Resistance against vibration 500 slow-action contacts  *Ambient temperature  *during operating	Electrical operating cycles in one hour		
Design of the contact element  Number of NC contacts  • for auxiliary contacts  Design of the switching function  Number of NO contacts  • for auxiliary contacts  Resistance against vibration  Resistance against shock  Ambient temperature  • during operating • during storage • "C -25 85 • during storage • "C -40 90  Product specification • for dimensions  Width of the sensor  • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Actuating speed  mm/s / m/s  Actuating speed  mm/s / m/s  protection class IP  Built in orientation  Protection class IP  Built in orientation  Design of the electrical connection  Item designation • according to DIN 40719 extendable after IEC 204-2  Solution contacts  2  positive opening  0			6,000
Number of NC contacts	Repeat accuracy	mm	0.05
- for auxiliary contacts      Design of the switching function  Number of NO contacts	Design of the contact element		slow-action contacts
Design of the switching function  Number of NO contacts  • for auxiliary contacts  1  Resistance against vibration  Resistance against vibration  Resistance against shock  Ambient temperature  • during operating • during storage  Product specification • for dimensions  Width of the sensor  material • of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Actuating speed  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Push (M20 x 1.5)  Design of the electrical connection  Resistance against vibration  • or according to DIN 40719 extendable after IEC 204-2  Safety and possible version  1 (According to DIN 40719 extendable after IEC 204-2  Safety and possible version  1 (According to DIN 40719 extendable after IEC 204-2  Safety and possible version  1 (According to DIN 40719 extendable after IEC 204-2	Number of NC contacts		
Number of NO contacts	for auxiliary contacts		2
* for auxiliary contacts  Resistance against vibration  Resistance against shock  Ambient temperature	Design of the switching function		positive opening
Resistance against vibration  Resistance against shock  Ambient temperature  • during operating • during storage  Product specification • for dimensions  Width of the sensor  material • of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  Actuating speed  mm/s / mx/s  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Pesign of the electrical connection  EN 50041  metal  metal  metal  metal  metal  pesign of the operating mechanism  Actuating speed  mm/s / mx/s  protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  EN 20  Protection class IP  Built in orientation  Tx (M20 x 1.5)  Design of the electrical connection  screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Number of NO contacts		
Resistance against shock  Ambient temperature  • during operating  • during storage  Product specification  • for dimensions  Width of the sensor  mm  40  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  Item designation  • according to DIN 40719 extendable after IEC 204-2  **C	for auxiliary contacts		1
Ambient temperature  • during operating • during storage  Product specification • for dimensions  EN 50041  Width of the sensor  mm  40  Material • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Pesign of the electrical connection  Item designation • according to DIN 40719 extendable after IEC 204-2  S - 25 85  - 25 85  - 25 85  - 40 90  EN 50041   metal  metal  metal  metal  metal  metal  metal  metal  9 0.4 1  Minimum actuating force / in activation direction  N 20  Protection class IP  Built in orientation  1x (M20 x 1.5)  screw-type terminals	Resistance against vibration		0.35 mm / 5g
• during operating     • during storage     • during storage  Product specification     • for dimensions  Width of the sensor  material     • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  Item designation     • according to DIN 40719 extendable after IEC 204-2  **C    -25 85  -25 85  -40 90  EN 50041  **EN 50041  metal  metal  metal  metal  metal  metal  petal  metal  petal  metal  petal  metal  petal  metal  petal  metal  petal  petal  metal  petal  petal  metal  petal  petal  metal  petal  p	Resistance against shock		30g / 11 ms
• during storage     Product specification     • for dimensions     EN 50041  Width of the sensor     mm    40  material     • of the housing     metal  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed    mm/s / m/s    0.4 1  Minimum actuating force / in activation direction    N    20  Protection class IP	Ambient temperature		
Product specification • for dimensions  Width of the sensor  mm 40  material • of the housing  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  N 20  Cable gland version  Design of the electrical connection  Screw-type terminals  Item designation • according to DIN 40719 extendable after IEC 204-2  S S	during operating	°C	-25 85
For dimensions     Midth of the sensor     material     of the housing     metal  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed     mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  In (M20 x 1.5)  Design of the electrical connection  Item designation     according to DIN 40719 extendable after IEC 204-2  Mind    metal  metal  metal  metal  metal  Material / of the housing / of the switch head  metal	during storage	°C	-40 90
Width of the sensor     mm     40       material <ul> <li>of the housing</li> <li>metal</li> </ul> Material / of the housing / of the switch head     metal           Design of the operating mechanism         stainless steel roller           Actuating speed         mm/s / m/s         0.4 1           Minimum actuating force / in activation direction         N         20           Protection class IP         IP66/IP67           Built in orientation         any           Cable gland version         1x (M20 x 1.5)           Design of the electrical connection         screw-type terminals           Item designation         screw-type terminals	Product specification		
material  of the housing  metal  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  0.4 1  Minimum actuating force / in activation direction  N  20  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  It (M20 x 1.5)  Design of the electrical connection  Item designation  according to DIN 40719 extendable after IEC 204-2  S  metal  metal  metal  metal  metal  metal  metal  metal  stainless steel roller  14 (M20 x 1.5)  S  S  S  S  S  S  S  S  S  S  S  S  S	• for dimensions		EN 50041
• of the housing       metal         Material / of the housing / of the switch head       metal         Design of the operating mechanism       stainless steel roller         Actuating speed       mm/s / m/s       0.4 1         Minimum actuating force / in activation direction       N       20         Protection class IP       IP66/IP67         Built in orientation       any         Cable gland version       1x (M20 x 1.5)         Design of the electrical connection       screw-type terminals         Item designation       according to DIN 40719 extendable after IEC 204-2       S	Width of the sensor	mm	40
Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed mm/s / m/s 0.4 1  Minimum actuating force / in activation direction N 20  Protection class IP IP66/IP67  Built in orientation any  Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S metal metal metal metal metal stainless steel roller  N 20  IP66/IP67  any  1x (M20 x 1.5)  S crew-type terminals	material		
Design of the operating mechanism  Actuating speed  mm/s / m/s  0.4 1  Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  Design of the electrical connection  tem designation  • according to DIN 40719 extendable after IEC 204-2  stainless steel roller  mm/s / m/s  0.4 1  IP66/IP67  IP66/IP67  any  1x (M20 x 1.5)  screw-type terminals	• of the housing		metal
Actuating speed mm/s / m/s 0.4 1  Minimum actuating force / in activation direction N 20  Protection class IP IP66/IP67  Built in orientation any  Cable gland version 1x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2 S	Material / of the housing / of the switch head		metal
Minimum actuating force / in activation direction  Protection class IP  Built in orientation  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  Item designation  • according to DIN 40719 extendable after IEC 204-2  N  20  IP66/IP67  any  1x (M20 x 1.5)  Screw-type terminals	Design of the operating mechanism		stainless steel roller
Protection class IP  Built in orientation  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  Item designation  • according to DIN 40719 extendable after IEC 204-2  IP66/IP67  any  1x (M20 x 1.5)  Screw-type terminals	Actuating speed	mm/s / m/s	0.4 1
Built in orientation  Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Minimum actuating force / in activation direction	N	20
Cable gland version  1x (M20 x 1.5)  Design of the electrical connection  screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Protection class IP		IP66/IP67
Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Built in orientation		any
Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Cable gland version		1x (M20 x 1.5)
• according to DIN 40719 extendable after IEC 204-2	Design of the electrical connection		screw-type terminals
	Item designation		
according to DIN EN 61346-2     B	<ul> <li>according to DIN 40719 extendable after IEC 204-2</li> </ul>		S
	according to DIN EN 61346-2		В

## Certificates/approvals:

### **General Product Approval**

For use in hazardous locations

Functional Safety / Safety of Machinery

Cac

ROSTEST





 $\frac{\mathsf{DEKRA}\;\mathsf{EXAM,}}{\mathsf{DMT}}$ 

ΤÜV

**Test Certificates** 

other

Manufacturer

other Manufacturer

## **Further information:**

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

**CAx-Online-Generator** 

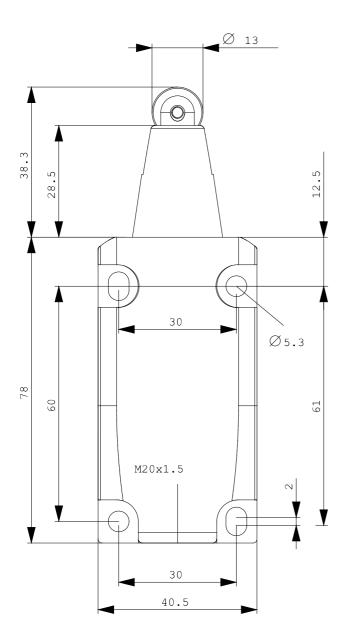
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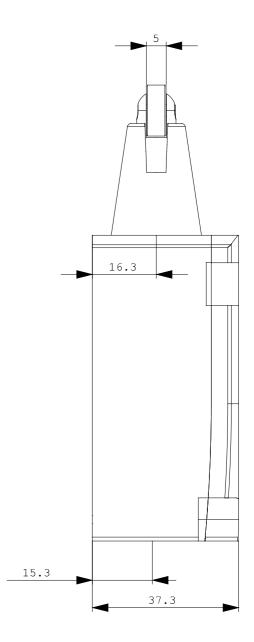
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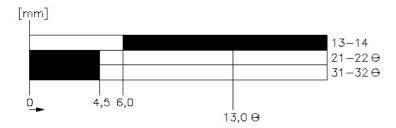
http://support.automation.siemens.com/WW/view/en/3SE5112-0KD02/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5112-0KD02







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