# **SIEMENS**

Product data sheet 3SE5242-0LD03



SIRIUS POSITION SWITCH; PLASTIC HOUSING ACC. TO EN50047, 50MM DEVICE CONNECTION 2X(M20X1.5); 1NO/2NC SNAP-ACTION CONTACTS ROLLER PLUNGER W. PLASTIC ROLLER 10MM

### 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

3SE5242-0LC05

3SE5000-0AD03

General technical details:		
product designation		standard position switch
Explosion protection category for dust		none
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	Α	0.55
• at 230 V / rated value	Α	0.27
Continuous current		

• of the slow DIAZED fuse link     • of the quick DIAZED fuse link     • of the Quick DIAZED fuse link     • of the Q characteristic circuit broaker     • No file C C characteristic circuit broaker     • Nypical     • Nypical			
• of the C characteristic circuit breaker         A         1           Mechanical operating cycles as operating time • vipical         15,000,000           Electrical operating cycles as operating time • visht contacts of SRH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028 / Vypical         10,000,000           Electrical operating cycles in one hour • visht contact of 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1028         0,000           Repeat accuracy         mm         0.5           Design of the contact element         mm         0.5           Number of NC contacts • for auxiliary contacts         2         positive opening           * lor auxiliary contacts         2         positive opening           * Resistance against vibration         30,31 mm / 5g         309,11 ms           * during operating         * C         25 +85         40           * during operating         * C         25 +85         40         40           * during operating         * C         25 +85         40         40         40         40         40         40         40 <td>of the slow DIAZED fuse link</td> <td>Α</td> <td>6</td>	of the slow DIAZED fuse link	Α	6
Mechanical operating cycles as operating time   typical   15,000,000     Electrical operating cycles as operating time   twith contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical   10,000,000     Electrical operating cycles in one hour   100,000     twith contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026   100,000     SRT1026 / typical   100,000     twith contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025   100,000     SRT1026 / typical   100,000     SRT1026 / typical   100,000     twith contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025   100,000     SREpeat accuracy	of the quick DIAZED fuse link	Α	10
Hypicial   Security	of the C characteristic circuit breaker	Α	1
Electrical operating cycles as operating time         • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / Typical         10,000,000           • sith Co15 / 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         snap-action contacts           Number of NC contacts         positive opening           • for auxiliary contacts         1           Resistance against vibration         30,3 mm / 5g           Resistance against vibration         30,3 mm / 5g           Resistance against shock         30g / 11 ms           Ambient temperature         °C         -40 +90           • during operating         °C         -40 +90           • Width of the sensor         plastic           • of the enclosure         plastic           • Material / of the housing / of the switch head         plastic roller           Design of the operating mechanism         N         20           Actuating speed         mm/s / m/s         0.1 1           Minimum actuating force / in activation direction         N         20           Protection class IP         my	Mechanical operating cycles as operating time		
• with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical         10,000           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         anap-action contacts           Number of NC contacts         2           • for auxiliary contacts         2           • for auxiliary contacts         1           • for auxiliary contacts         30g / 11 ms           Resistance against vibration         30g / 11 ms           Resistance against shock         30g / 11 ms           Ambient temperature         °C         -25 +85           • during operating         °C         -25 +85           • during operating         °C         -40 +90           Width of the sensor         mm         50           Material         • of the enclosure         plastic           Material         • of the operating mechanism         N         2           Actualing speed         mm/s / m/s         1	• typical		15,000,000
ART1026 / 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  0.05  Repeat accuracy  mm  0.05  Repeat accuracy  mm  0.05  Repeat accuracy  mm  0.05  Repeat accuracy  positive opening  repeat accuracy  positive opening  Number of NC contacts  • for auxillary con	Electrical operating cycles as operating time		
Electrical operating cycles in one hour         with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         6,000           Repeat accuracy         mm         0.05           Design of the contact element         mm         0.05           Number of NC contacts         2         contact element           Number of NC contacts         2         positive opening           • for auxiliary contacts         1         positive opening           Resistance against vibration         0.35 mm / 5g         positive opening           Resistance against vibration         0.35 mm / 5g         positive opening           • during operating         °C         25 +85         condition           • during operating         °C         25 +85         condition           • during storage         °C         40 +90         condition           Material         of the enclosure         plastic           Material         plastic         plastic           Actuating speed         mm/s / m/s         0.1 1           Minimum ac			10,000,000
* with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  Design of the contact element  Number of NC contacts  • for auxiliary contacts  • for au	• at AC-15 / at 230 V / typical		100,000
ART1026         Month         0.05           Design of the contact element         mm         0.05           Number of NC contacts	Electrical operating cycles in one hour		
Design of the contact element  Number of NC contacts  • for auxiliary contacts  Resistance against vibration  Resistance against shock  Ambient temperature  • during operating  • during operating  • during storage  • C			6,000
Number of NC contacts	Repeat accuracy	mm	0.05
Posign of the switching function  Number of NO contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  Resistance against vibration  Resistance against shock  Ambient temperature • during operating • during storage  **C*** -25 +85 • during storage  **C*** -40 +90  Width of the sensor  Material • of the enclosure  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Actuating speed  **Imm/s / m/s  **Imm/s / m/s  **Design of the operating mechanism  No  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Item designation • according to DIN 40719 extendable after IEC 204-2  **Imm wind in the continue operation of the continue o	Design of the contact element		snap-action contacts
Design of the switching function       positive opening         Number of NO contacts       I         • for auxiliary contacts       1         Resistance against vibration       0.35 mm / 5g         Resistance against shock       30g / 11 ms         Ambient temperature       °C       -25 +85         • during operating       °C       -40 +90         • during storage       °C       -40 +90         Width of the sensor       mm       50         Material       • plastic         • of the enclosure       plastic         Material / of the housing / of the switch head       plastic         Design of the operating mechanism       plastic roller         Actuating speed       mm/s / m/s       0.1 1         Minimum actuating force / in activation direction       N       20         Protection class IP       IP66/IP67         mounting position       any       2x (M20 x 1.5)         Cable gland version       2x (M20 x 1.5)       screw-type terminals         Item designation       screw-type terminals         * according to DIN 40719 extendable after IEC 204-2       S	Number of NC contacts		
Number of NO contacts	for auxiliary contacts		2
• for auxiliary contacts       1         Resistance against vibration       0.35 mm / 5g         Resistance against shock       30g / 11 ms         Ambient temperature <ul> <li>• during operating</li> <li>• °C             <ld>-25 +85              <li>• during storage</li> <li>°C             <ld>-40 +90               Width of the sensor             mm             50                Material              • of the enclosure             plastic               Material / of the housing / of the switch head             plastic               Design of the operating mechanism             plastic roller               Actuating speed             mm/s / m/s             0.1 1               Minimum actuating force / in activation direction             N             20               Protection class IP             IP66/IP67               mounting position             any               Cable gland version             2 x (M20 x 1.5)               Design of the electrical connection             screw-type terminals               Item designation             screw-type terminals</ld></li></ld></li></ul>	Design of the switching function		positive opening
Resistance against vibration  Resistance against shock  Ambient temperature	Number of NO contacts		
Resistance against shock  Ambient temperature	for auxiliary contacts		1
Ambient temperature  • during operating • during storage  *C -25 +85  • during storage  *C -40 +90  Width of the sensor  mm 50  Material • of the enclosure  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s 0.1 1  Minimum actuating force / in activation direction  N 20  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Design of the electrical connection  Let m designation • according to DIN 40719 extendable after IEC 204-2  S -25 +85  -25 +85  -25 +85  -26 +90  -26 +90  -27 +90  -28 +90  -29 +90  -29 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90  -20 +90	Resistance against vibration		0.35 mm / 5g
<ul> <li>during operating</li> <li>during storage</li> <li>C -25 +85</li> <li>40 +90</li> </ul> Width of the sensor mm 50 Material <ul> <li>of the enclosure</li> <li>plastic</li> </ul> Material / of the housing / of the switch head <ul> <li>plastic roller</li> </ul> Actuating speed <ul> <li>mm/s / m/s</li> <li>0.1 1</li> </ul> Minimum actuating force / in activation direction <ul> <li>N</li> <li>20</li> </ul> Protection class IP <ul> <li>mounting position</li> <li>any</li> </ul> Cable gland version <ul> <li>2 x (M20 x 1.5)</li> </ul> Design of the electrical connection <ul> <li>screw-type terminals</li> </ul> Item designation <ul> <li>according to DIN 40719 extendable after IEC 204-2</li> </ul> S S	Resistance against shock		30g / 11 ms
<ul> <li>during storage</li> <li>during storage</li> <li>width of the sensor</li> <li>mm</li> <li>mm</li> <li>mm</li> <li>mm</li> <li>mm</li> <li>plastic</li> <li>plastic</li> <li>plastic roller</li> <li>plastic roller</li> <li>Actuating speed</li> <li>mm/s / m/s</li> <li>0.1 1</li> <li>Minimum actuating force / in activation direction</li> <li>protection class IP</li> <li>mounting position</li> <li>Cable gland version</li> <li>plastic roller</li> <li>mm/s / m/s</li> <li>plastic roller</li> <li>mm/s / m/s</li> <li>n</li> <li>20</li> <li>protection class IP</li> <li>ple66/IP67</li> <li>any</li> <li>Cable gland version</li> <li>2 x (M20 x 1.5)</li> <li>screw-type terminals</li> <li>ltem designation</li> <li>according to DIN 40719 extendable after IEC 204-2</li> <li>S</li> </ul>	Ambient temperature		
Width of the sensor mm 50  Material  • of the enclosure plastic  Material / of the housing / of the switch head plastic  Design of the operating mechanism plastic roller  Actuating speed mm/s / m/s 0.1 1  Minimum actuating force / in activation direction N 20  Protection class IP IP66/IP67  mounting position any  Cable gland version 2 x (M20 x 1.5)  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
Material         • of the enclosure       plastic         Material / of the housing / of the switch head       plastic         Design of the operating mechanism       plastic roller         Actuating speed       mm/s / m/s       0.1 1         Minimum actuating force / in activation direction       N       20         Protection class IP       IP66/IP67         mounting position       any         Cable gland version       2 x (M20 x 1.5)         Design of the electrical connection       screw-type terminals         Item designation       according to DIN 40719 extendable after IEC 204-2       S	during storage	°C	-40 +90
◆ of the enclosure       plastic         Material / of the housing / of the switch head       plastic         Design of the operating mechanism       plastic roller         Actuating speed       mm/s / m/s       0.1 1         Minimum actuating force / in activation direction       N       20         Protection class IP       IP66/IP67         mounting position       any         Cable gland version       2 x (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	50
Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed mm/s / m/s 0.1 1  Minimum actuating force / in activation direction N 20  Protection class IP IP66/IP67  mounting position any  Cable gland version 2 x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  Plastic roller  plastic roller  plastic roller  plastic roller  nm/s / m/s 0.1 1  2 v (M20 x 1.5)  screw-type terminals	Material		
Design of the operating mechanism  Actuating speed mm/s / m/s 0.1 1  Minimum actuating force / in activation direction N 20  Protection class IP IP66/IP67  mounting position any  Cable gland version 2 x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S plastic roller  nm/s / m/s 0.1 1  20  IP66/IP67  any  2 x (M20 x 1.5)  S crew-type terminals	• of the enclosure		plastic
Actuating speed mm/s / m/s 0.1 1  Minimum actuating force / in activation direction N 20  Protection class IP IP66/IP67  mounting position any  Cable gland version 2 x (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		plastic
Minimum actuating force / in activation direction  Protection class IP  IP66/IP67  mounting position  Cable gland version  Design of the electrical connection  Item designation  • according to DIN 40719 extendable after IEC 204-2  N  20  IP66/IP67  any  2 x (M20 x 1.5)  screw-type terminals	Design of the operating mechanism		plastic roller
Protection class IP IP66/IP67  mounting position any  Cable gland version 2 x (M20 x 1.5)  Design of the electrical connection screw-type terminals  Item designation  • according to DIN 40719 extendable after IEC 204-2  S  IP66/IP67  any  2 x (M20 x 1.5)  S  S	Actuating speed	mm/s / m/s	0.1 1
mounting position       any         Cable gland version       2 x (M20 x 1.5)         Design of the electrical connection       screw-type terminals         Item designation       screw-type terminals         • according to DIN 40719 extendable after IEC 204-2       S	Minimum actuating force / in activation direction	N	20
Cable gland version 2 x (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  Item designation  • according to DIN 40719 extendable after IEC 204-2  S  S  S  S  S  S  S  S  S  S  S  S  S	mounting position		any
Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Cable gland version		2 x (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**

Functional Safety / Safety of Machinery Declaration of Conformity













**Test Certificates** 

other

Special Test Certificate Confirmation

### 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:

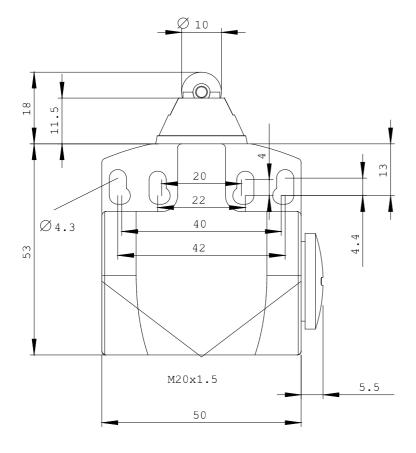
http://www.siemens.com/cax

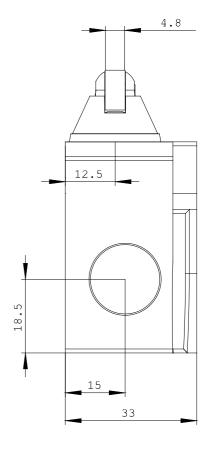
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

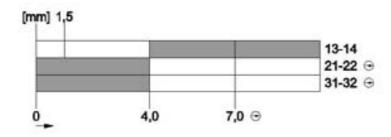
 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3SE5242-0LD03/all}}$ 

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5242-0LD03







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