# **SIEMENS**

Product data sheet 3SE5234-0HE10-1AC4



SIRIUS POSITION SWITCH;
PLASTIC HOUSING ACC. TO EN50047,
31MM 1NO/1NC SNAP-ACTION CONTACTS INTEGRATED
(NOT REPLACEABLE) W. M12 CONNECTOR,
4-POLE PIN ASSIGNMENT: PIN1=21,
PIN2=22, PIN3=13,PIN4=14,
MAX. 250V AND 4A ROLLER LEVER W. PLASTIC 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

3SE5234-0HC05-1AC4

3SE5000-0AE10

General technical details:		
product designation		standard position switch
Explosion protection category for dust		none
Insulation voltage		
rated value	V	250
Degree of pollution		class 3
Thermal current	Α	4
Operating current		
• at AC-15		
• at 24 V / rated value	Α	4
• at 125 V / rated value	Α	4
• at 230 V / rated value	Α	3
• 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 quick DIAZED take link         A         4           • of the Quick DIAZED take link         A         2           Mechanical operating cycles as operating time         1, piccal         15,000,000           • the Cohamical operating cycles as operating time         1, piccal         10,000           • at AC-15 / at 230 V / typical         6,000         6,000           Electrical operating cycles in one hour         • which contacts 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1026, 3RT1026         6,000           Repeat accuracy         mm         0.5           Design of the contact element         mm         0.5           Number of NC contacts         1         1           • for auxiliary contacts         1         2           Design of the switching function         1         2           Number of NC contacts         1         1           • for auxiliary contacts         1         2           • for auxiliary contacts         1         3           • for auxiliary contacts         1         3           • for auxiliary contacts         1         3           • for auxiliary contacts         1         4           • for auxiliary contacts         1         3           • for auxiliary contacts         1 </th <th></th> <th></th> <th></th>			
• of the C characteristic circuit breaker  Mechanical operating cycles as operating time  • typical  Electrical operating cycles in one hour  • with contactor SRH11, 3RT1016, 3RT1024, 3RT1024, 3RT1025, 3RT10025, 3RT10025  Repeat accuracy  Design of the contact element  Number of NC contacts  • for suciliary contacts  • lor auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for function acquains tribration  Resistance against vibration  Ambient temperature  • during operating • of the enclosure  Muterial • of the enclosure  Material • of the enclosure  Material of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Protection class IP  mounting position  Cable gland version  Design of the plug-in connection  Paccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendable after IEC 2042   ### Caccording to DIN 40719 extendab	• of the slow DIAZED fuse link	Α	4
Mechanical operating cycles as operating time	of the quick DIAZED fuse link	Α	4
	• of the C characteristic circuit breaker	Α	2
Electrical operating cycles as operating time	Mechanical operating cycles as operating time		
e. at AC-15 / at 230 V / typical         100,000           Electrical operating cycles in one hour         6,000           *with contactor 3RH11, 3RT1018, 3RT1017, 3RT1024, 3RT1024, 3RT1028         6,000           Repeat accuracy         mm         0.05           Design of the contact element         snap-action contacts           *for auxiliary contacts         1           Design of the switching function         positive opening, integrated           Number of NO contacts         1           *for auxiliary contacts         1           *lor auxiliary contacts         1           *lor auxiliary contacts         1           *sestance against vibration         30,5 mm/5g           Resistance against vibration         25 +85           *during operating         *C         25 +85           *during storage         *C         25 +85           *during storage         *C         40 +90           Product specification         EN \$0047           *for dimensions         EN \$50047           Width of the sensor         mm         31           Material         **         plastic           *of the enclosure         plastic         **           Material / of the housing / of the switch head         **	• typical		15,000,000
Electrical operating cycles in one hour         with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026, 3RT1017, 3RT1024, 3RT1025, 3RT1025         6,000           Repeat accuracy         mm         0.05           Design of the contact element         asp-action contacts           I or auxiliary contacts         1           Design of the witching function         positive opening, integrated           Number of NO contacts         1           I for auxiliary contacts         1           Resistance against vibration         305 mm / 5g           Resistance against vibration         309 / 11 ms           Ambient temperature         4 curing storage         2 curing storage         25 ms/50           Product specification         6 ms         31         31           Vidit of the sensor         mm         31         31           Material         6 ms         31         31           of the enclosure         Ensign of the bousing of the switch head         Ensign         Bastic           Design of the poperating mechanism         metal lever, plastic roller           Actuating speed         mm/s / ms         01 1           Minimum actuating force / in activation direction         mm/s / ms         10 1           Protection class IP         IP <td>Electrical operating cycles as operating time</td> <td></td> <td></td>	Electrical operating cycles as operating time		
with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  mm 0.05  Number of NC contacts  *for auxiliary contacts  *tor	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy         mm         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         snap-action contacts           Number of NC contacts			6,000
Number of NC contacts	Repeat accuracy	mm	0.05
• for auxiliary contacts       1         Design of the switching function       positive opening, integrated         Number of NO contacts • for auxiliary contacts       1         Resistance against vibration       0.35 mm / 5g         Resistance against shock       30g / 11 ms         Ambient temperature • during operating • during storage       °C       -25 +85         • during storage       °C       -40 +90         Product specification • for dimensions       EN 50047         Width of the sensor       mm       31         Material • of the enclosure       plastic         Material / of the housing / of the switch head       plastic         Design of the operating mechanism       nmm/s / m/s       0.1 1         Actuating speed       mm/s / m/s       0.1 1         Minimum actuating force / in activation direction       N       10         Protection class IP       mounting position       M12 plug         Cable gland version       M2 plug, fixed         Design of the electrical connection       M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14         Item designation       M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14	Design of the contact element		snap-action contacts
Design of the switching function         positive opening, integrated           Number of NO contacts • for auxiliary contacts         1           Resistance against vibration         0.35 mm/5g           Resistance against shock         30g / 11 ms           Ambient temperature • during operating • during storage         °C         -25 +85           • during storage         °C         -40 +90           Product specification • for dimensions         EN 50047           Width of the sensor         mm         31           Material • of the enclosure         plastic           Material / of the housing / of the switch head         plastic           Design of the operating mechanism         metal lever, plastic roller           Actuating speed         mm/s / m/s         0.1 1           Minimum actuating force / in activation direction         N         10           Protection class IP         mounting position         M12 plug           Cable gland version         M2 plug           Design of the electrical connection         M12 plug, fixed           Design of the plug-in connection         M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14           Item designation         M2 plug (size)           ***Coording to DIN 40719 extendable after IEC 204-2         S <td>Number of NC contacts</td> <td></td> <td></td>	Number of NC contacts		
Number of NO contacts	• for auxiliary contacts		1
• for auxiliary contacts       1         Resistance against vibration       0.35 mm / 5g         Resistance against shock       30g / 11 ms         Ambient temperature       - 25 +85         • during operating       °C       -25 +85         • during storage       °C       -40 +90         Product specification       EN 50047         • for dimensions       mm       31         Material       • of the enclosure       plastic         Material / of the housing / of the switch head       plastic         Design of the operating mechanism       metal lever, plastic roller         Actuating speed       mm/s / m/s       0.1 1         Minimum actuating force / in activation direction       N       10         Protection class IP       IP65         mounting position       any         Cable gland version       M12 plug         Design of the electrical connection       M12 plug, fixed         Design of the plug-in connection       M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14         Item designation       N       S	Design of the switching function		positive opening, integrated
Resistance against vibration 0.35 mm/5g  Resistance against shock 30g / 11 ms  Ambient temperature  • during operating • during storage °C -25 +85 • during storage  Product specification • for dimensions EN 50047  Width of the sensor mm 31  Material • of the enclosure plastic  Material / of the housing / of the switch head plastic  Design of the operating mechanism metal lever, plastic roller  Actuating speed mm/s / m/s 0.1 1  Minimum actuating force / in activation direction N 10  Protection class IP Protection class IP IP65  mounting position IP65  mounting position IP65  Design of the electrical connection M12 plug  Design of the plug-in connection M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation • according to DIN 40719 extendable after IEC 204-2 Service is a size of the service i	Number of NO contacts		
Resistance against shock  Ambient temperature	• for auxiliary contacts		1
Ambient temperature  • during operating • during storage  o C -25 +85  • during storage  o C -40 +90  Product specification • for dimensions  EN 50047  Width of the sensor  mm 31  Material • of the enclosure  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  N 10  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  M12 plug  M12 plug  M12 plug, fixed  M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation • according to DIN 40719 extendable after IEC 204-2  S	Resistance against vibration		0.35 mm / 5g
<ul> <li>during operating</li> <li>during storage</li> <li>C -25 +85</li> <li>during storage</li> <li>C -40 +90</li> </ul> Product specification <ul> <li>for dimensions</li> <li>EN 50047</li> </ul> Width of the sensor <ul> <li>mm</li> <li>31</li> </ul> Material <ul> <li>of the enclosure</li> <li>plastic</li> </ul> Material / of the housing / of the switch head <ul> <li>plastic</li> </ul> Design of the operating mechanism <ul> <li>metal lever, 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>10</li> </ul> Protection class IP <ul> <li>mounting position</li> <li>any</li> </ul> Cable gland version <ul> <li>M12 plug</li> <li>fixed</li> </ul> Design of the electrical connection <ul> <li>M12 plug, fixed</li> </ul> Design of the plug-in connection <ul> <li>M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14</li> </ul> Item designation <ul> <li>according to DIN 40719 extendable after IEC 204-2</li> </ul> S <ul> <li>S </li> </ul>	Resistance against shock		30g / 11 ms
<ul> <li>during storage</li> <li>during storage</li> <li>for dimensions</li> <li>EN 50047</li> <li>Width of the sensor</li> <li>Material</li> <li>of the enclosure</li> <li>Material / of the housing / of the switch head</li> <li>Design of the operating mechanism</li> <li>Actuating speed</li> <li>mm/s / m/s</li> <li>10</li> <li>Protection class IP</li> <li>mounting position</li> <li>Cable gland version</li> <li>Design of the electrical connection</li> <li>M12 plug</li> <li>Design of the plug-in connection</li> <li>M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14</li> <li>Item designation</li> <li>according to DIN 40719 extendable after IEC 204-2</li> </ul>	Ambient temperature		
Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the housing / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  Design of the plug-in connection  M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation • according to DIN 40719 extendable after IEC 204-2   Material  EN 50047  EN 50047  EN 50047  Actuation  Plastic  plastic  plastic  plastic  netal lever, plastic roller  netal lever, plasti	during operating	°C	-25 +85
• for dimensionsEN 50047Width of the sensormm31Material • of the enclosureplasticMaterial / of the housing / of the switch headplasticDesign of the operating mechanismmetal lever, plastic rollerActuating speedmm/s / m/s0.1 1Minimum actuating force / in activation directionN10Protection class IPIP65mounting positionanyCable gland versionM12 plugDesign of the electrical connectionM12 plug, fixedDesign of the plug-in connectionM12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14Item designation • according to DIN 40719 extendable after IEC 204-2S	during storage	°C	-40 <b>+</b> 90
Width of the sensor  Material  of the enclosure  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  mounting position  Cable gland version  Design of the electrical connection  Design of the plug-in connection  M12 plug  M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation  according to DIN 40719 extendable after IEC 204-2  mmm/s / m/s  plastic  plastic  metal lever, plastic roller  metal lev	Product specification		
Material• of the enclosureplasticMaterial / of the housing / of the switch headplasticDesign of the operating mechanismmetal lever, plastic rollerActuating speedmm/s / m/s0.1 1Minimum actuating force / in activation directionN10Protection class IPIP65mounting positionanyCable gland versionM12 plugDesign of the electrical connectionM12 plug, fixedDesign of the plug-in connectionM12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14Item designation • according to DIN 40719 extendable after IEC 204-2S	• for dimensions		EN 50047
• 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 10  Protection class IP IP65  mounting position any  Cable gland version M12 plug  Design of the electrical connection M12 plug, fixed  Design of the plug-in connection M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation  • according to DIN 40719 extendable after IEC 204-2  S   plastic plastic  metal lever, plastic roller  metal le	Width of the sensor	mm	31
Material / of the housing / of the switch headplasticDesign of the operating mechanismmetal lever, plastic rollerActuating speedmm/s / m/s0.1 1Minimum actuating force / in activation directionN10Protection class IPIP65mounting positionanyCable gland versionM12 plugDesign of the electrical connectionM12 plug, fixedDesign of the plug-in connectionM12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14Item designation • according to DIN 40719 extendable after IEC 204-2S	Material		
Design of the operating mechanism  Actuating speed  mm/s / m/s  0.1 1  Minimum actuating force / in activation direction  N  10  Protection class IP  IP65  mounting position  Cable gland version  Design of the electrical connection  Design of the plug-in connection  M12 plug, fixed  M12 plug, fixed  M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation  • according to DIN 40719 extendable after IEC 204-2  S  metal lever, plastic roller  mm/s / m/s  0.1 1  N  10  M12 plug  M12 plug  M12 plug  M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14	of the enclosure		plastic
Actuating speed mm/s / m/s 0.1 1  Minimum actuating force / in activation direction N 10  Protection class IP IP65  mounting position any  Cable gland version M12 plug  Design of the electrical connection M12 plug, fixed  Design of the plug-in connection M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  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  mounting position  Cable gland version  Design of the electrical connection  Design of the plug-in connection  M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation  • according to DIN 40719 extendable after IEC 204-2  S  10  10  10  10  10  10  11  12  14  15  15  16  17  18  18  19  10  10  10  10  10  10  10  10  10	Design of the operating mechanism		metal lever, plastic roller
Protection class IP IP65  mounting position any  Cable gland version M12 plug  Design of the electrical connection M12 plug, fixed  Design of the plug-in connection M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation  • according to DIN 40719 extendable after IEC 204-2 S	Actuating speed	mm/s / m/s	0.1 1
mounting positionanyCable gland versionM12 plugDesign of the electrical connectionM12 plug, fixedDesign of the plug-in connectionM12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14Item designationS• according to DIN 40719 extendable after IEC 204-2S	Minimum actuating force / in activation direction	N	10
Cable gland versionM12 plugDesign of the electrical connectionM12 plug, fixedDesign of the plug-in connectionM12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14Item designationS• according to DIN 40719 extendable after IEC 204-2S	Protection class IP		IP65
Design of the electrical connectionM12 plug, fixedDesign of the plug-in connectionM12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14Item designationS• according to DIN 40719 extendable after IEC 204-2S	mounting position		any
Design of the plug-in connection  M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Cable gland version		M12 plug
3 = 13, Pin 4 = 14  Item designation  • according to DIN 40719 extendable after IEC 204-2  S	Design of the electrical connection		M12 plug, fixed
• according to DIN 40719 extendable after IEC 204-2	Design of the plug-in connection		
	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:

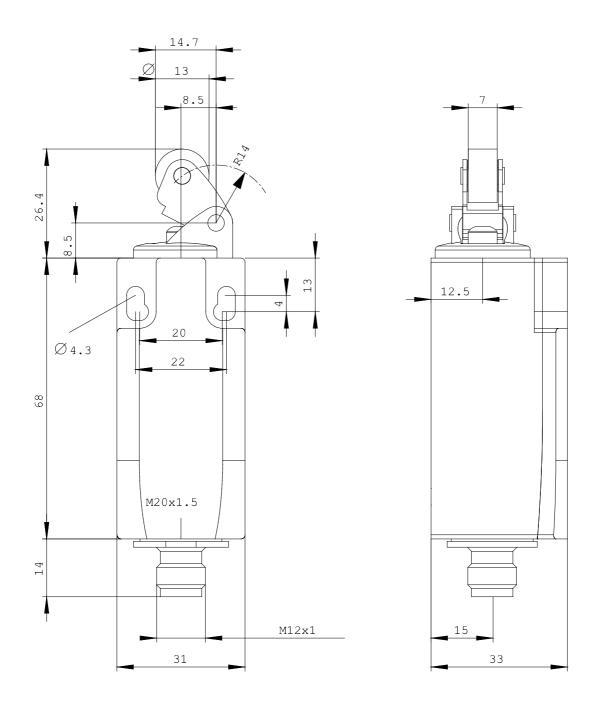
http://www.siemens.com/cax

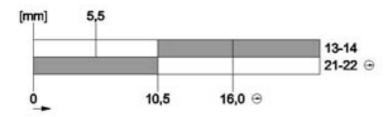
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3SE5234-0HE10-1AC4/all}}$ 

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5234-0HE10-1AC4





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