## **SIEMENS**

Product data sheet 3SE5234-0BC05-1AC4



SIRIUS POSITION SWITCH; PLASTIC HOUSING ACC. TO EN50047, 31MM 1NO/1NC SLOW-ACTION CONTACTS W. M12 CONNECTOR,4-POLE PIN ASSIGNMENT: PIN1=21, PIN2=22, PIN3=13,PIN4=14, MAX.250V AND 4A, TEFLON PLUNGER

## Manufacturer article number

• of the basic unit included in the scope of supply

3SE5234-0BC05-1AC4

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 slow DIAZED fuse link	А	4

• of the C characteristic circuit breaker  • of the C characteristic circuit breaker  • which contact operating cycles as operating time • yopical  • A 2  Electrical operating cycles as operating time • aA C-15 / at 230 V / yopical  Electrical operating cycles in one hour • with contact afferth 1, 3RT1018, 3RT1017, 3RT1024, 3RT1025, 3RT1028  Repeat accuracy  mm 0.05  select accuracy mm 0.05  select accuracy mm 0.05  select accuracy mm 0.05  select accuracy positive operating which accurate a contacts • for southling contacts • for auditing contacts • for auditing contacts • for device the contact of			
Mechanical operating cycles as operating time  • typical  Electrical operating cycles as operating time  • at AC-15 / at 230 V / typical  Electrical operating cycles in one hour  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026  Repeat accuracy  Design of the contact element  Number of NC contacts  • for auxiliary contacts  •	of the quick DIAZED fuse link	Α	4
	of the C characteristic circuit breaker	Α	2
Electrical operating cycles as operating time  • 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  Respisat of Nc contacts  • for auxiliary contacts  • for auxil	Mechanical operating cycles as operating time		
	• typical		15,000,000
Electrical operating cycles in one hour         • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026         6,000         6,000           Repeat accuracy         mm         0.06         0.00           Design of the contact element         slow-action contacts         1           Number of NC contacts         1         positive opening           • for auxiliary contacts         1         1           Resistance against vibration         0.35 mm / 5g         30g / 11 ms           Ambient temperature         • during operating         °C -25 +85         • 40 +90           • for dimensions         EN 50047         EN 50047           With of the sensor         mm         31           Material         • of the enclosure         plastic           Material / of the housing / of the switch head         plastic	Electrical operating cycles as operating time		
* with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy mm 0.05  Design of the contact element  Number of NC contacts  * for auxiliary contacts	• at AC-15 / at 230 V / typical		100,000
Repeat accuracy         mm         0.05           Design of the contact element         slow-action contacts           Number of NC contacts	Electrical operating cycles in one hour		
Design of the contact element  Number of NC contacts  • for auxiliary contacts  • for desistance against vibration  • during operating  • C 25 +85  • during operating  • C -25 +85  • during operating  • 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  Act			6,000
Number of NC contacts • for auxiliary contacts  • for auxiliary contac	Repeat accuracy	mm	0.05
• for auxiliary contacts         1           Design of the switching function         positive opening           Number of NO contacts         • for auxiliary contacts           • for auxiliary contacts         1           Resistance against vibration         0.35 mm / 5g           Resistance against shock         30g / 11 ms           Ambient temperature         • 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         velflon plunger           Actuating speed         mm/s / m/s         0.4 1.5           Minimum actuating force / in activation direction         N         20           Protection class IP         mounting position         any           Cable gland version         M12 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         according to DIN 40719 extendable after IEC 204-2         S	Design of the contact element		slow-action contacts
Design of the switching function     positive opening       Number of NO contacts	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 <ul> <li>during operating</li> <li>during storage</li> <li>40 - 40 +90</li> </ul> Product specification <ul> <li>for dimensions</li> <li>EN 50047</li> </ul> Width of the sensor       mm       31         Material <ul> <li>of the enclosure</li> <li>plastic</li> </ul> Material / of the housing / of the switch head       plastic         Design of the operating mechanism       teflon plunger         Actuating speed       mm/s / m/s       0.4 1.5         Minimum actuating force / in activation direction       N       20         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       s         • according to DIN 40719 extendable after IEC 204-2       S	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 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  Public in a speed  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  Ambient temperature  30g / 11 ms  40cc  40	Number of NO contacts		
Resistance against shock  Ambient temperature  • during operating • during storage  Product specification • for dimensions  EN 50047  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, 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  Actualing speed  M12 plug, 4-pole: Pin 1 = terminal 21, Pin 2 = 22, Pin 3 = 13, Pin 4 = 14	for auxiliary contacts		1
Ambient temperature  • during operating • during storage  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  mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  M12 plug  M12 plug  M12 plug, fixed  Design of the plug-in connection  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 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>teflon plunger</li> </ul> Actuating speed <ul> <li>mm/s / m/s</li> <li>0.4 1.5</li> </ul> Minimum actuating force / in activation direction <ul> <li>N 20</li> </ul> Protection class IP <ul> <li>mounting position</li> <li>any</li> </ul> Cable gland version <ul> <li>M12 plug</li> <li>plug, fixed</li> </ul> Design of the electrical connection <ul> <li>M12 plug, fixed</li> <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> <li>S</li> </ul> S <ul> <li>S </li> </ul>	Resistance against shock		30g / 11 ms
• 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     pesign of the operating mechanism     teflon plunger  Actuating speed    mm/s / m/s 0.4 1.5  Minimum actuating force / in activation direction    N 20  Protection class IP	Ambient temperature		
Product specification • for dimensions  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  0.4 1.5  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  Design of the electrical connection  M12 plug  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	during operating	°C	-25 +85
For dimensions	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  mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  mounting position  Cable gland version  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  M12 plug  S	Product specification		
Material       • of the enclosure       plastic         Material / of the housing / of the switch head       plastic         Design of the operating mechanism       teflon plunger         Actuating speed       mm/s / m/s       0.4 1.5         Minimum actuating force / in activation direction       N       20         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	• for dimensions		EN 50047
• 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  Protection class IP  IP65  mounting position  Cable gland version  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  S	Width of the sensor	mm	31
Material / of the housing / of the switch headplasticDesign of the operating mechanismteflon plungerActuating speedmm/s / m/s0.4 1.5Minimum actuating force / in activation directionN20Protection 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  0.4 1.5  Minimum actuating force / in activation direction  N  20  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	of the enclosure		plastic
Actuating speed mm/s / m/s 0.4 1.5  Minimum actuating force / in activation direction N 20  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  IP65  mounting position  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	Design of the operating mechanism		teflon plunger
Protection class IP  IP65  mounting position  Cable gland version  M12 plug  Design of the electrical 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	Actuating speed	mm/s / m/s	0.4 1.5
mounting position  Cable gland version  M12 plug  Design of the electrical 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	Minimum actuating force / in activation direction	N	20
Cable gland version  M12 plug  Design of the electrical 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	Protection class IP		IP65
Design of the electrical connection  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	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	<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:

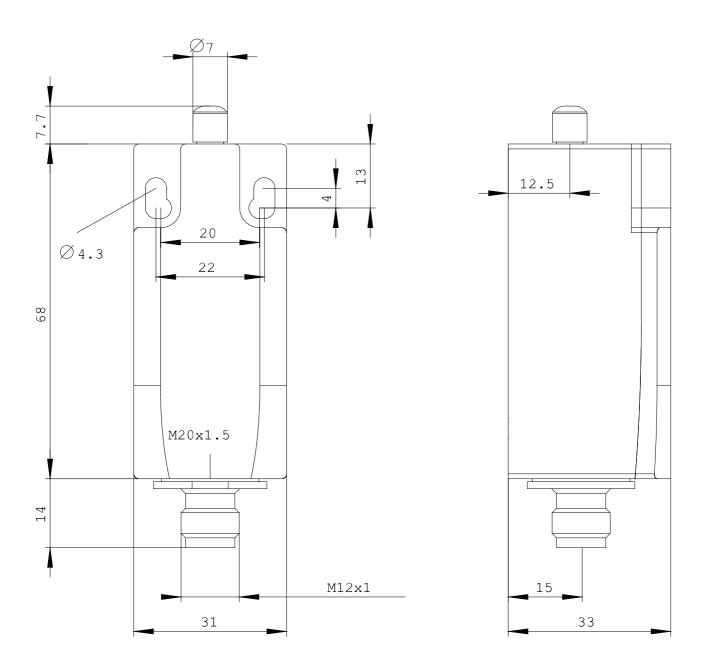
http://www.siemens.com/cax

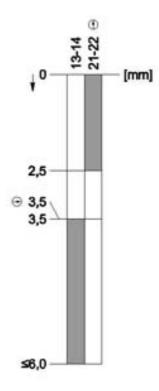
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3SE5234-0BC05-1AC4/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5234-0BC05-1AC4





last change: Feb 18, 2013