Product data sheet 3SE5232-0CD10-1AJ0



SIRIUS POSITION SWITCH PLASTIC 31MM,
ACC. TO EN 50047 INCREASED CORROSION
PROTECTION,
DEVICE CONNECTION 1X (M20X1.5) 1NO/1NC SNAPACTION CONTACTS ROUNDED PLUNGER W. CENTRAL
FIXING,
FUNCTIONAL AT -40 DEGREES,
SHOCK AND VIBRATION TEST ACC. TO EN61373,
CATEGORY 1B

## 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

3SE5232-0CC05-1AJ0 3SE5000-0AD10-1AJ0

General technical data:		
Product designation		standard position switch
Product feature		expanded temperature range, e.g. railway application
Explosion protection category for dust		none
Insulation voltage		
• rated value	V	400
Degree of pollution		class 3
Thermal current	А	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	6
• at 400 V / rated value	Α	4
• at DC-13		
• at 24 V / rated value	Α	3
• at 125 V / rated value	Α	0.55

** al 400 V / rated value         A         0.1           Continuous current         ***         ***           • of the slow DIAZED fuse link         A         10           • of the Quick DIAZED fuse link         A         10           • of the C characteristic circuit breaker         A         2           Mechanical operating cycles as operating time         ****         15,000,000           • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / ST1026 / Spical         10,000,000           Electrical operating cycles in one hour         ****         6,000           • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         6,000         6,000           Electrical operating cycles in one hour         ****         6,000           • with contacte sement         ***         6,000           Posign of the contact element         ***         1           Number of NC contacts         1         1           • for auxiliary contacts         1         1           • for auxiliary contacts         1         2           • for auxiliary contacts         1         2           • for auxiliary contacts         1         2           • for auxiliary contacts         3         3           • for auxiliary appli	• at 230 V / rated value	Α	0.27
• of the slow DIAZED fuse link         A         10           • of the quick DIAZED fuse link         A         10           • of the Quick DIAZED fuse link         A         2           Mechanical operating circuit breaker         Is,000,000           Electrical operating cycles as operating time         • 15,000,000           • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 / 3RT1026 / 3RT1026 / 3RT1026 / 3RT1026, 3RT1017, 3RT1024, 3RT1025, 3RT1026         100,000           Electrical operating cycles in one hour         • • • • • • • • • • • • • • • • • • •	• at 400 V / rated value	Α	0.1
. of the Quick DIAZED fuse link . of the C characteristic circuit breaker  A 2  Mechanical operating cycles as operating time . typical  Electrical operating cycles as operating time . with confactor SRH11, 3RT1016, 3RT1017, 3RT1024, 3RT1026, 3RT1026 / typical . at AC-15 / at 230 V / typical . at AC-15 / at 250 V /	Continuous current		
* of the C characteristic circuit breaker  Mechanical operating cycles as operating time  * typical  Electrical operating cycles as operating time  * with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1026, 3RT1026 / typical  * at AC-15 / at 230 V/ typical  * at AC-15 / at 230 V/ typical  * with contact or 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 SART1026 SART1017, 3RT1024, 3RT1025, 3RT1026 SART1026 SART1026 SART1017, 3RT1024, 3RT1025, 3RT1026 SART1026 SART1026 SART1026 SART1026 SART1027, 3RT1024, 3RT1025, 3RT1026 SART1026 SART1026 SART1027, 3RT1024, 3RT1025, 3RT1026 SART1026 SAR	• of the slow DIAZED fuse link	Α	6
Mechanical operating cycles as operating time	of the quick DIAZED fuse link	Α	10
Number of NC contacts   100 million of No c	• of the C characteristic circuit breaker	Α	2
Electrical operating cycles as operating time  • with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / 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  no onutactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  mm 0.05  mm 0.05  map-action contacts  • for auxiliary applications / according to DIN EN 61373  Resistance against vibration  • for railway applications / according to DIN EN 61373  Resistance against shock  • for railway applications / according to DIN EN 61373  Resistance against shock  • for interperature  • during operating • during storage  Product specification • for dimensions  Material • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  20  100,000  100	Mechanical operating cycles as operating time		
with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 / typical      letectrical operating cycles in one hour      with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 / sqrting cycles in one hour      with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1025, 3RT1026 / sqrting cycles in one hour      with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT1026 / sqrting cycles in one hour      with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT1026 / sqrting cycles in one hour      with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026, 3RT1026	• typical		15,000,000
aRT1026/ typical e at AC-15 / at 230 V/ typical  Electrical operating cycles in one hour  • with contactor 3RH11, 3RT1016, 3RT1024, 3RT1025, 3RT1025, 3RT1026  Repeat accuracy  mm 0.05  Repeat accuracy  mm 0.05  Repeat accuracy  mm 0.05  Repeat accuracy  for auxiliary contacts  • for railway applications / according to DIN EN 61373  Resistance against vibration  • for railway applications / according to DIN EN 61373  Resistance against shock • for railway applications / according to DIN EN 61373  Ambient temperature  • during operating • during storage  Product specification • for dimensions  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  In 100,000  6,	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         snap-action contacts           Number of NC contacts         1           of auxiliary contacts         1           Posign of the switching function         positive opening           Number of NC contacts         1           * for auxiliary contacts         1           * for auxiliary contacts         1           * for railway applications / according to DIN EN 61373         Category 1, Class B           Resistance against shock         30g / 11 ms           * for railway applications / according to DIN EN 61373         Category 1, Class B           Ambient temperature         *C         40 +85           * during operating         *C         40 +85           * during storage         *C         40 +90           Product specification         EN 50047           * Width of the sensor         mm         31           Material         of the enclosure / of the switch head         plastic           Design of the operating mechanism         plastic roller           Actuating speed         mms/s / m/s         0.1 1			10,000,000
* with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026  Repeat accuracy  Design of the contact element  Number of NC contacts  * for auxiliary applications / according to DIN EN 61373  Resistance against vibration  * for railway applications / according to DIN EN 61373  Ambient temperature  * during operating  * during storage  * C  * 40 +85  * during storage  * C  * 40 +90  Product specification  * for dimensions  Width of the sensor  Material  * of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  * IP66  *	• at AC-15 / at 230 V / typical		100,000
ART1026         mm         0.05           Design of the contact element         mm         0.05           Number of NC contacts         ***         ***           * for auxiliary contacts         1         ***           Design of the switching function         ***         positive opening           Number of NC contacts         ***         ***           * for auxiliary contacts         1         ***           * for auxiliary contacts         1         ***           * for railway applications / according to DIN EN 61373         ***         Category 1, Class B           Resistance against shock         ***         Category 1, Class B           * for railway applications / according to DIN EN 61373         ***         Category 1, Class B           Ambient temperature         ***         Category 1, Class B           * during operating         ***         40 +85           * during storage         ***         40 +90           Product specification         ***         EN 50047           * Width of the sensor         mm         31           * Waterial         ***         Plastic           * of the enclosure / of the switch head         ***         plastic           * Design of the operating mechanism	Electrical operating cycles in one hour		
Design of the contact element  Number of NC contacts  • for auxiliary contacts  • for ailway applications / according to DIN EN 61373  Resistance against vibration  • for railway applications / according to DIN EN 61373  Resistance against shock • for railway applications / according to DIN EN 61373  Resistance against shock • for railway applications / according to DIN EN 61373  Resistance against shock • for railway applications / according to DIN EN 61373  Resistance against shock • for dailway applications / according to DIN EN 61373  Resistance against shock • for dailway applications / according to DIN EN 61373  Resistance against shock • for dailway applications / according to DIN EN 61373  Resistance against shock • for dailway applications / according to DIN EN 61373  Resistance against shock • for aliway applications / according to DIN EN 61373  Resistance against shock • for aliway applications / according to DIN EN 61373  Resistance against shock • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  Resistance against shock • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway applications / according to DIN EN 61373  • for aliway ap			6,000
Number of NC contacts	Repeat accuracy	mm	0.05
• for auxiliary contacts  Design of the switching function  Number of NO contacts     • for auxiliary contacts  • for rallway applications / according to DIN EN 61373  Resistance against shock     • for rallway applications / according to DIN EN 61373  Resistance against shock     • for rallway applications / according to DIN EN 61373  Ambient temperature     • during operating     • during storage  Product specification     • for dimensions  Width of the sensor  Material     • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  N1  Protection class IP  I   positive opening  positive opening  positive opening  positive opening  positive opening  1  positive opening  positive opening  1  positive opening  contact  positive opening  contact  1  Actuating speed  mm/s / m/s  Positive opening  positive opening  contact  1  Actuating speed  mm/s / m/s  Positive opening  positive opening  contact  actuating speed  mm/s / m/s  Positive opening  positive opening  contact  actuating speed  mm/s / m/s  Positive opening  positive opening  contact  actuating speed  mm/s / m/s  Positive opening  positive opening  actuations pening  positive opening  actuations pening  actuations pening  positive opening  actuations pening  actuations	Design of the contact element		snap-action contacts
Design of the switching function     positive opening       Number of NO contacts	Number of NC contacts		
Number of NO contacts • for auxiliary contacts  Resistance against vibration • for railway applications / according to DIN EN 61373  Resistance against shock • for railway applications / according to DIN EN 61373  Ambient temperature • during operating • during storage • during storage  Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  Minimum actuating force / in activation direction  Protection class IP  I 1  0.35 mm / 5g Category 1, Class B  Category 1, Class B  Category 1, Class B  Category 1, Class B  Sold - 40 +85  - 40 +85  - 40 +85  - 40 +90  Poder - 40 +90  Product specification  EN 50047  By Jastic  plastic  plastic  plastic  O.1 1  Minimum actuating force / in activation direction  N 20  Protection class IP	for auxiliary contacts		1
• for auxiliary contacts  Resistance against vibration • for railway applications / according to DIN EN 61373  Resistance against shock • for railway applications / according to DIN EN 61373  Ambient temperature • during operating • during storage  Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  1 0.35 mm / 5g  Category 1, Class B  Categ	Design of the switching function		positive opening
Resistance against vibration • for railway applications / according to DIN EN 61373  Resistance against shock • for railway applications / according to DIN EN 61373  Ambient temperature • during operating • during storage  Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  O .35 mm / 5g Category 1, Class B  30g / 11 ms Category 1, Class B  Category 1, Class B  S .240 +85 - 40 +85 - 40 +90  Po +90  EN 50047  EN 50047  EN 50047  Design of the enclosure / of the switch head  plastic  plastic  0.1 1  N 20  Protection class IP	Number of NO contacts		
* for railway applications / according to DIN EN 61373  Resistance against shock     * for railway applications / according to DIN EN 61373  Ambient temperature     * during operating     * during storage  Product specification     * for dimensions  Material     * of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Category 1, Class B  30g / 11 ms  Category 1, Class B  Cate	for auxiliary contacts		1
Resistance against shock • for railway applications / according to DIN EN 61373  Ambient temperature • during operating • during storage  Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Protection class IP  According to DIN EN 61373  Category 1, Class B  Category 1, Class Class B  Cat	Resistance against vibration		0.35 mm / 5g
• for railway applications / according to DIN EN 61373  Ambient temperature     • during operating     • during storage  Product specification     • for dimensions  Width of the sensor  Material     • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Category 1, Class B  Category 1, Class B  Category 1, Class B  EN 50047  Find In 1900  Poc 40 +90  Poc 40 +90  Poc 40 +90  Find In 1900  Poc 40 +90  Poc 40 +85  Poc 40 +90  Poc 40	for railway applications / according to DIN EN 61373		Category 1, Class B
Ambient temperature  • during operating • during storage  Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Product specification • °C -40 +85  -40 +90  EN 50047  EN 50047  EN 50047  plastic	Resistance against shock		30g / 11 ms
<ul> <li>during operating</li> <li>during storage</li> <li>C -40 +85</li> <li>during storage</li> <li>C -40 +90</li> <li>Product specification</li> <li>for dimensions</li> <li>EN 50047</li> <li>Width of the sensor</li> <li>mm 31</li> <li>Material</li> <li>of the enclosure</li> <li>plastic</li> <li>plastic</li> <li>Design of the operating mechanism</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>N 20</li> <li>Protection class IP</li> </ul>	• for railway applications / according to DIN EN 61373		Category 1, Class B
• during storage     • during storage  Product specification     • for dimensions  EN 50047  Width of the sensor  mm 31  Material     • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  N 20  Protection class IP  Product specification  EN 50047  EN 50047  EN 50047   EN 50047   Mm 31  Visite plastic  plastic  plastic roller  N 20  IP65	Ambient temperature		
Product specification • for dimensions  Width of the sensor  Material • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  EN 50047   By Jastic  Plastic	during operating	°C	-40 <b>+</b> 85
For dimensions	during storage	°C	-40 +90
Width of the sensor mm 31  Material  • of the enclosure  Material / of the enclosure / 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  IP65	Product specification		
Material  • of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  Minimum actuating force / in activation direction  Protection class IP  Protection class IP	• for dimensions		EN 50047
of the enclosure  Material / of the enclosure / of the switch head  Design of the operating mechanism  Actuating speed  mm/s / m/s  0.1 1  Minimum actuating force / in activation direction  Protection class IP  plastic	Width of the sensor	mm	31
Material / of the enclosure / 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 IP65	Material		
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     IP65	• of the enclosure		plastic
Actuating speed mm/s / m/s 0.1 1  Minimum actuating force / in activation direction N 20  Protection class IP IP65	Material / of the enclosure / of the switch head		plastic
Minimum actuating force / in activation direction  N 20  Protection class IP  IP65	Design of the operating mechanism		plastic roller
Protection class IP IP65	Actuating speed	mm/s / m/s	0.1 1
	Minimum actuating force / in activation direction	N	20
mounting position any	Protection class IP		IP65
	mounting position		any

Cable gland version		1x (M20 x 1.5)
Design of the electrical connection		screw-type terminals
Fire load	kJ	1,300
Reference code		
<ul> <li>according to DIN 40719 extended according to IEC 204-2</li> </ul>		S
• according to DIN EN 61346-2		В

## Certificates/ approvals:

**General Product Approval** 

Declaration of Conformity

**Test Certificates** 











Special Test Certificate

other

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

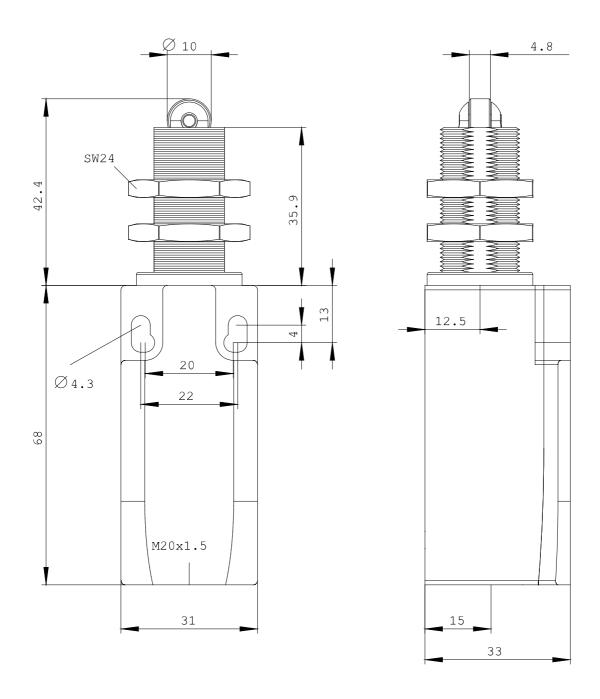
http://www.siemens.com/cax

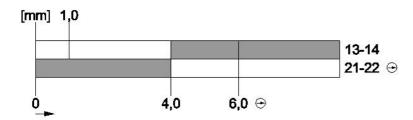
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3SE5232-0CD10-1AJ0/all}}$ 

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SE5232-0CD10-1AJ0}$ 





last change: Aug 8, 2014