SIEMENS

Data sheet

3TK2810-1KA41



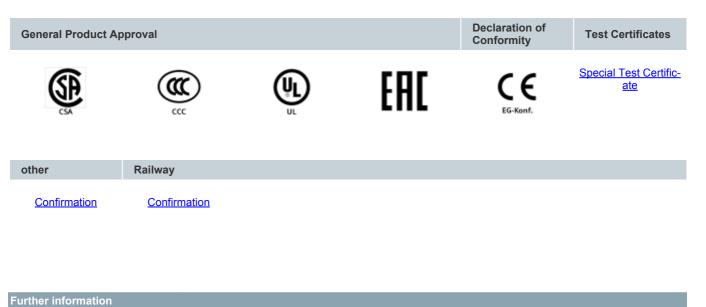
SIRIUS safety relay Safety-oriented Speed monitoring 110-240 V AC/DC, 45 mm overall width Screw terminal EC instantaneous: 2 NO EC delayed: 0 SC: 2 electrical Auto-start/manual start Basic device Maximum achievable PL according to EN 13849-1: e Maximum achievable SIL according to IEC 61508: 3

| product brand name | SIRIUS |
|---|--|
| product designation | Speed monitor |
| design of the product | standstill and speed monitoring |
| General technical data | |
| protection class IP of the enclosure | IP20 |
| touch protection against electrical shock | finger-safe |
| insulation voltage rated value | 300 V |
| ambient temperature | |
| during storage | -20 +70 °C |
| during operation | 0 60 °C |
| air pressure according to SN 31205 | 90 106 kPa |
| relative humidity during operation | 10 95 % |
| installation altitude at height above sea level maximum | 2 000 m |
| vibration resistance according to IEC 60068-2-6 | 10 55 Hz: 0.35 mm |
| shock resistance | 8g / 10 ms |
| surge voltage resistance rated value | 4 000 V |
| EMC emitted interference | EN 60947-5-1 |
| installation environment regarding EMC | This product is suitable for Class A environments only. In household environments, this device can cause unwanted radio interference. The user is required to implement appropriate measures in this case. |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 | KT |
| reference code according to EN 61346-2 | F |
| number of sensor inputs | |
| • 2-channel | 3 |
| 1-channel or 2-channel | 0 |
| design of the cascading | none |
| type of the safety-related wiring of the inputs | single-channel or two-channel |
| product feature cross-circuit-proof | Yes |
| Safety Integrity Level (SIL) | |
| according to IEC 61508 | 3 |
| according to IEC 62061 | 3 |
| for delayed release circuit according to IEC 61508 | SIL3 |
| SIL Claim Limit (subsystem) according to EN 62061 | 3 |
| performance level (PL) | |
| according to ISO 13849-1 | е |
| for delayed release circuit according to EN ISO 13849-1 | e |
| category according to EN ISO 13849-1 | 4 |
| hardware fault tolerance according to IEC 61508 | 1 |
| safety device type according to IEC 61508-2 | Туре В |
| PFHD with high demand rate according to EN 62061 | 3.4E-9 1/h |

| T1 value for proof test interval or service life | 20 a |
|--|--|
| according to IEC 61508 number of outputs as contact-affected switching | |
| element | |
| as NC contact | |
| for signaling function instantaneous contact | 0 |
| for signaling function delayed switching | 0 |
| — safety-related instantaneous contact | 0 |
| — safety-related delayed switching | 0 |
| as NO contact | |
| for signaling function instantaneous contact | 0 |
| for signaling function delayed switching | 0 |
| — safety-related instantaneous contact | 1 |
| — safety-related delayed switching | 1 |
| number of outputs as contact-less semiconductor switching element | |
| safety-related | |
| delayed switching | 0 |
| — instantaneous contact | 0 |
| for signaling function | |
| - delayed switching | 1 |
| — instantaneous contact | 1 |
| stop category according to EN 60204-1 | 0 |
| Inputs | |
| design of input | |
| cascading input/functional switching | No |
| feedback input | Yes |
| start input | Yes |
| Encoder | |
| encoder signal evaluation | two signal tracks each with inverted signals |
| type of signal level of the encoder | optionally TTL, HTL or sin/cos (Ua = 1Vss) |
| type of failure response of the encoder | high-resistance |
| | |
| Proximity switch | |
| | DC |
| Proximity switch type of voltage of the supply voltage of proximity switches | DC |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches | 24 V; provided by the device |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum | 24 V; provided by the device 30 mA |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output | 24 V; provided by the device 30 mA optionally PNP or NPN |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum adjustment range of signal frequency of proximity | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum adjustment range of signal frequency of proximity switches | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum interpulse period of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 3 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 3 A 3 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 3 A 3 A 3 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 115 V | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 µs 75 µs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 3 A 3 A 3 A 3 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 µs 75 µs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 3 A 3 A 3 A 3 A 3 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 115 V | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 µs 75 µs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 3 A 3 A 3 A 3 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • hermal current of the switching element with | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 µs 75 µs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 3 A 3 A 3 A 3 A 3 A |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 115 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • thermal current of the switching element with contacts maximum | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 |
| type of voltage of the supply voltage of proximity switches supply voltage of proximity switches current consumption of proximity switches maximum type of switching output input voltage for proximity switch minimum pulse duration of proximity switches minimum adjustment range of signal frequency of proximity switches measuring precision switching hysteresis Outputs switching capacity current • of semiconductor outputs — for signaling function at DC-13 at 24 V • of the NO contacts of the relay outputs at DC-13 — at 24 V — at 115 V • of the NO contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • of the NC contacts of the relay outputs at AC-15 — at 24 V — at 230 V • hermal current of the switching element with contacts maximum electrical endurance (operating cycles) typical | 24 V; provided by the device 30 mA optionally PNP or NPN 10 V 75 μs 75 μs 1 Hz 2 kHz +-2 % 6.25 % 0.02 A 2 A 2 A 2 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 |

| the NO contacts of the | relay outputs required |
|------------------------|------------------------|
|------------------------|------------------------|

| the NO contacts of the relay outputs required | |
|---|---|
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage frequency | |
| 1 rated value | 50 Hz |
| • 2 rated value | 60 Hz |
| control supply voltage 1 | |
| • at DC | 110 240 V |
| control supply voltage 1 at AC | |
| • at 50 Hz | 110 240 V |
| • at 60 Hz | 110 240 V |
| operating range factor control supply voltage rated | |
| value of magnet coil | |
| ● at AC | |
| — at 50 Hz | 0.8 1.1 |
| — at 60 Hz | 0.8 1.1 |
| • at DC | 0.8 1.1 |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting |
| width | 45 mm |
| height | 105.9 mm |
| depth | 124.3 mm |
| • | |
| Connections/ Terminals | |
| type of electrical connection | screw-type terminals |
| type of connectable conductor cross-sections | |
| • solid | 0.5 4 mm ² |
| finely stranded | |
| — with core end processing | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) |
| type of connectable conductor cross-sections at AWG | |
| cables | 2x(20, 44) |
| • solid | 2x (20 14) |
| | |
| • stranded | 2x (20 14) |
| Product Function | 2x (20 14) |
| Product Function product function | |
| Product Function product function • light barrier monitoring | No |
| Product Function product function • light barrier monitoring • standstill monitoring | No Yes |
| Product Function product function • light barrier monitoring • standstill monitoring • protective door monitoring | No Yes Yes |
| Product Function product function • light barrier monitoring • standstill monitoring • protective door monitoring • automatic start | No Yes Yes Yes |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO | No Yes Yes |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring | No Yes Yes Yes |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO | No Yes Yes No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring | No Yes Yes No Yes |
| Product Function product function • light barrier monitoring • standstill monitoring • protective door monitoring • automatic start • magnetically operated switch monitoring NC-NO • rotation speed monitoring • laser scanner monitoring | No Yes Yes No Yes No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC | No Yes Yes No Yes No Yes |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring | No Yes Yes No Yes No Yes No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC | No Yes Yes No Yes No Yes No No No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control | No Yes Yes No Yes No Yes No No Yes |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring | No Yes Yes No Yes No Yes No No Yes No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control | No Yes Yes No Yes No Yes No No Yes No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use | No Yes Yes No Yes No Yes No No Yes No No No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors | No Yes Yes No Yes No Yes No No Yes No No Yes |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors monitoring of non-floating sensors | No Yes Yes No Yes No Yes No No Yes No No Yes No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors monitoring of non-floating sensors safety switch | No Yes Yes No Yes No No Yes No No Yes No No Yes |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors monitoring of non-floating sensors safety switch position switch monitoring | No Yes Yes No Yes No Yes No No Yes No No No Yes No No Yes Yes |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors monitoring of non-floating sensors safety switch position switch monitoring EMERGENCY-OFF circuit monitoring | No Yes Yes No Yes No Yes No No Yes No No No Yes No No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors monitoring of non-floating sensors safety switch position switch monitoring EMERGENCY-OFF circuit monitoring eMERGENCY-OFF circuit monitoring extern monitoring | No Yes Yes No Yes No Yes No No No Yes No No Yes No No Yes No Yes No Yes No No Yes No No No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors monitoring of non-floating sensors safety switch position switch monitoring EMERGENCY-OFF circuit monitoring eMERGENCY-OFF circuit monitoring monitoring of non-floating sensors safety switch position switch monitoring EMERGENCY-OFF circuit monitoring extremolitoring monitoring monitoring magnetically operated switch monitoring monitoring monitoring monitoring monitoring monitoring | No Yes Yes Yes No No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors monitoring of non-floating sensors safety switch position switch monitoring EMERGENCY-OFF circuit monitoring EMERGENCY-OFF circuit monitoring valve monitoring tactile sensor monitoring magnetically operated switch monitoring safety-related circuits | No Yes Yes Yes No No |
| Product Function product function light barrier monitoring standstill monitoring protective door monitoring automatic start magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring magnetically operated switch monitoring NC-NO rotation speed monitoring laser scanner monitoring monitored start-up light array monitoring magnetically operated switch monitoring NC-NC EMERGENCY OFF function pressure-sensitive mat monitoring suitability for interaction press control suitability for use monitoring of floating sensors monitoring of non-floating sensors safety switch position switch monitoring EMERGENCY-OFF circuit monitoring valve monitoring tactile sensor monitoring uayle monitoring safety-related circuits Certificates/ approvals | No Yes Yes Yes No No Yes No No No No Yes Yes No Yes < |
| Product Function product function • light barrier monitoring • standstill monitoring • protective door monitoring • automatic start • magnetically operated switch monitoring NC-NO • rotation speed monitoring • light array operated switch monitoring NC-NO • rotation speed monitoring • laser scanner monitoring • monitored start-up • light array monitoring • magnetically operated switch monitoring NC-NC • EMERGENCY OFF function • pressure-sensitive mat monitoring suitability for interaction press control suitability for use • monitoring of floating sensors • monitoring of non-floating sensors • safety switch • position switch monitoring • EMERGENCY-OFF circuit monitoring • valve monitoring • tactile sensor monitoring • tactile sensor monitoring • angnetically operated switch monitoring • safety-related circuits Certificates of suitability | No Yes Yes No No No Yes No No Yes No Yes EN ISO 13849, EN 62061, IEC 61508 |
| Product Function product function • light barrier monitoring • standstill monitoring • protective door monitoring • automatic start • magnetically operated switch monitoring NC-NO • rotation speed monitoring • light array operated switch monitoring NC-NO • rotation speed monitoring • laser scanner monitoring • monitored start-up • light array monitoring • magnetically operated switch monitoring NC-NC • EMERGENCY OFF function • pressure-sensitive mat monitoring suitability for interaction press control suitability for use • monitoring of floating sensors • monitoring of non-floating sensors • safety switch • position switch monitoring • EMERGENCY-OFF circuit monitoring • valve monitoring • tactile sensor monitoring • tactile sensor monitoring • angnetically operated switch monitoring • safety-related circuits Certificates of suitability • TÜV (German technical inspectorate) certificate | No Yes Yes No No Yes No No Yes No No |
| Product Function product function • light barrier monitoring • standstill monitoring • protective door monitoring • automatic start • magnetically operated switch monitoring NC-NO • rotation speed monitoring • light array operated switch monitoring NC-NO • rotation speed monitoring • laser scanner monitoring • monitored start-up • light array monitoring • magnetically operated switch monitoring NC-NC • EMERGENCY OFF function • pressure-sensitive mat monitoring suitability for interaction press control suitability for use • monitoring of floating sensors • monitoring of non-floating sensors • safety switch • position switch monitoring • EMERGENCY-OFF circuit monitoring • valve monitoring • tactile sensor monitoring • tactile sensor monitoring • angnetically operated switch monitoring • safety-related circuits Certificates of suitability | No Yes Yes No No Yes No No Yes No No Yes No Yes EN ISO 13849, EN 62061, IEC 61508 |



Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TK2810-1KA41

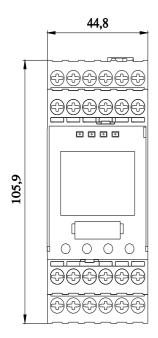
Cax online generator

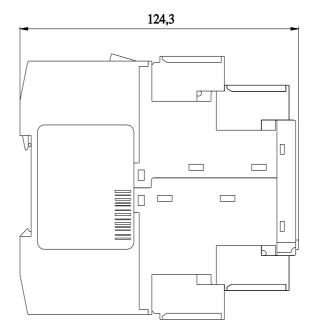
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TK2810-1KA41

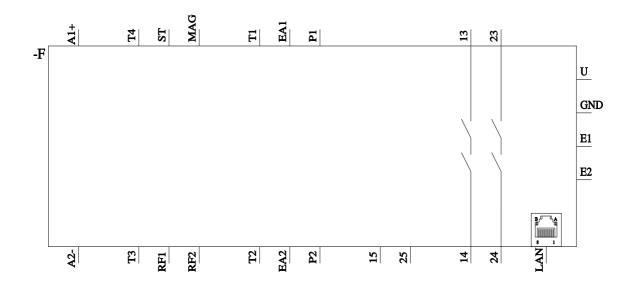
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3TK2810-1KA41

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TK2810-1KA41&lang=en







last modified:

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