For full product information, visit www.sti.com. Use the SpeedSpec Code or scan the QR Code for quick access to the specific web page.

## Guard Lock Safety-Door Switch

- Best-selling guard lock safety-door switch available in several compact, multi-contact models
- Selectable Operation Key insertion direction and adjustable mounting ensure installation flexibility
- Built-in switches with multiple-contact construction are available
- Key holding force of $1,300 \mathrm{~N}$ minimum
- Can be used for either standard loads or microloads
- Lineup includes models with a conduit size of M20
- IP67 degree of protection
- Variety of metallic heads available
- A Rapid Delivery Product: Select models are available for shipment today or within 3 to 5 days



## Specifications

## Standards and EC Directives

Conforms to the following EC Directives:

- Machinery Directive
- Low Voltage Directive
- EN 1088
- EN 60204-1
- GS-ET-19


## Certified Standards

| Certification <br> body | Standard | File No. |
| :--- | :--- | :--- |
| TÜV SÜD | EN 60947-5-1 <br> (certified direct opening) | Consult your <br> representative for <br> details. |
| UL *1 | UL 508, CSA C22.2 No.14 | E76675 |
| CQC (CCD) | GB14048.5 | 2003010305064267 |
| KOSHA *2 | EN60947-5-1 | $2005-196$ |

*1. Certification for CSA C22.2 No. 14 is certified by the UL mark.
*2. Only certain models have been certified.

## Certified Standard Ratings

TÜV (EN 60947-5-1), CCC (GB14048.5)

| Item Utilization category | AC-15 | DC-13 |
| :--- | :---: | :---: |
| Rated operating current (le) | 3 A | 0.27 A |
| Rated operating voltage (Ue) | 240 V | 250 V |

Note: Use a 10 A fuse type gl or gG that conforms to IEC 60269 as a shortcircuit protection device. This fuse is not built into the Switch.

UL/CSA (UL 508, CSA C22.2 No. 14)
A300

| Rated <br> voltage | Carry <br> current | Current (A) |  | Volt-amperes (VA) |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  |  | Make | Break | Make | Break |
| 120 VAC | 10 A | 60 | 6 | 7,200 | 720 |
|  |  | 30 | 3 |  |  |

Q300

| Rated <br> voltage | Carry <br> current | Current (A) |  | Volt-amperes (VA) |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  |  | Make | Break | Make | Break |
| 125 VDC | 2.5 A | 0.55 | 0.55 | 69 | 69 |
|  |  | 0.27 | 0.27 |  |  |

Solenoid Coil Characteristics

| Item $\quad$ Type | $\mathbf{2 4}$ VDC | $\mathbf{1 1 0}$ VAC | $\mathbf{2 3 0}$ VAC |
| :--- | :---: | :---: | :---: |
| Rated operating <br> voltage (100\% ED) | 24 VDC ${ }_{-15 \%}^{+10 \%}$ | 110 VAC <br> $\pm 10 \%$ | 230 VAC <br> $\pm 10 \%$ |
| Current consumption | Approx. <br> 200 mA | Approx. <br> 50 mA | Approx. <br> 30 mA |
| Insulation Class | Class F $\left(130^{\circ} \mathrm{C}\right.$ max. $)$ |  |  |

Indicator Characteristics

| Item $\quad$ Type | LED |
| :--- | :---: |
| Rated voltage | 10 to 115 VAC/VDC |
| Current consumption | Approx. 1 mA |
| Color (LED) | Orange |

Connections

## Contact Form

Indicates conditions where the Key is inserted and the lock is applied. Terminals 12 and 41 are connected internally (as per GS-ET-19).

|  | Contact (door open/closed detection and lock monitor) | Contact form |  | Operating pattern |  |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Model |  | Door open/ closed detection | Lock monitor |  |  |  |  |
| D4NL- $\square$ AF $\square$ - $\square$ | $1 \mathrm{NC} / 1 \mathrm{NO}+1 \mathrm{NC} / 1 \mathrm{NO}$ | Door open/ closed detection | ock monitor | $\begin{aligned} & 11-42 \\ & 33-34 \\ & 53-54 \end{aligned}$ <br> Operat comple | Stroke |  | Only NC contacts 11-12 have a certified direct opening mechanism. The terminals 11-42, 33-34, and 53-54 can be used as unlike poles. |
| D4NL- $\square$ BF $\square$ - $\square$ | $1 \mathrm{NC} / 1 \mathrm{NO}+2 \mathrm{NC}$ | Door open/ closed detection | ock monitor | $\begin{array}{r} 11-42 \\ 33-34 \\ 51-52 \\ \vdots \\ \text { Ope } \\ \text { Key } \\ \text { com } \end{array}$ |  | ON <br> Extraction completion position. | Only NC contacts 11-12 have a certified direct opening mechanism. The terminals 11-42, 33-34, and 51-52 can be used as unlike poles. |
| D4NL- $\square$ CF $\square$ - $\square$ | $2 \mathrm{NC}+1 \mathrm{NC} / 1 \mathrm{NO}$ | Door open/ closed detection | ck monitor | $\begin{array}{r} 11-42 \\ 31-32 \\ 53-54 \\ \vdots \\ \text { Oper? } \\ \text { Key ir } \\ \text { comp } \end{array}$ |  |  | Only NC contacts 11-12 and 31-32 have a certified direct opening mechanism. <br> The terminals 11-42, 31-32, and 53-54 can be used as unlike poles. |
| D4NL- $\square$ DF $\square$ - $\square$ | $2 N C+2 N C$ | Door open/ closed detection | Lock monitor | $\begin{array}{r} 11-42 \\ 31-32 \\ 51-52 \\ \\ \text { Opere } \\ \text { Key ir } \\ \text { comp } \\ \text { com } \end{array}$ |  |  | Only NC contacts 11-12 and 31-32 have a certified direct opening mechanism. <br> The terminals 11-42, 31-32, and 51-52 can be used as unlike poles. |
| D4NL- $\square$ EF $\square$ - $\square$ | 2NC/1NO + 1NC/1NO |  | Lock monitor | $\begin{aligned} & 11-42 \\ & 21-22 \\ & 33-34 \\ & 53-54 \end{aligned}$ |  |  | Only NC contacts 11-12 and 21-22 have a certified direct opening mechanism. <br> The terminals 11-42, 21-22, 33-34, and 53-54 can be used as unlike poles. |
| D4NL- $\square$ FF $\square$ - $\square$ | $2 \mathrm{NC/} / 1 \mathrm{NO}+2 \mathrm{NC}$ |  | Lock monitor | $\begin{array}{r} 11-42 \\ 21-22 \\ 33-34 \\ 51-52 \\ \text { Oper } \\ \text { Keyi } \\ \text { Kome } \\ \text { com } \end{array}$ | Stroke |  | Only NC contacts 11-12 and 21-22 have a certified direct opening mechanism. <br> The terminals 11-42, 21-22, 33-34, and 51-52 can be used as unlike poles. |
| D4NL- $\square$ GF $\square$ - $\square$ | $3 \mathrm{NC}+1 \mathrm{NC} / 1 \mathrm{NO}$ |  | ock monitor | $\begin{array}{r} 11-42 \\ 21-22 \\ 31-32 \\ 53-54 \end{array}$ |  | $\qquad$ $\square$ $\square$ <br> ON <br> N <br> Extraction completion position | Only NC contacts 11-12, 21-22, and 31-32 have a certified direct opening mechanism. <br> The terminals 11-42, 21-22, 31-32, and 53-54 can be used as unlike poles. |
| D4NL- $\square \mathrm{HF} \square-\square$ | $3 N C+2 N C$ |  | Lock monitor | $\begin{array}{r} 11-42 \\ 21-22 \\ 31-32 \\ 51-52 \\ \vdots \\ \text { Oper } \\ \text { Key } \\ \text { comp } \end{array}$ |  |  | Only NC contacts 11-12, 21-22, and 31-32 have a certified direct opening mechanism. <br> The terminals 11-42, 21-22, 31-32, and 51-52 can be used as unlike poles. |

## Switches



| Operating <br> characteristics | D4NL- $\square \square \square \square-$ <br> BS |
| :--- | :---: |
| Key insertion force <br> Key extraction <br> force | 15 N max. <br> $30 \mathrm{~N} \mathrm{max}$. |
| Pre-travel distance | 9 mm max. |
| Movement before <br> being locked | 3 mm min. |



| Operating <br> characteristics | D4NL- $\square \square \square \square-$ <br> B4 |
| :--- | :---: |
| Key insertion force <br> Key extraction force | 15 N max. |
| 30 N max. |  |.

## Notes:

1. Unless otherwise specified, a tolerance of $\pm 0.4 \mathrm{~mm}$ applies to all dimensions.
2. There are fluctuations in the contact ON/OFF timing for Switches with multiple poles (2NC, 2NC/1NO, or 3NC). Confirm performance before application.

## D4NL- <br> $\square \square \square \square$-B <br> -BS



| Operating <br> characteristics | D4NL- $\square \square \square \square-$ <br> BS |
| :--- | :---: |
| Key insertion force <br> Key extraction <br> force | 15 N max. <br> 30 N max. |
| Pre-travel distance | 9 mm max. |
| Movement before <br> being locked | 3 mm min. |

D4NL- $\square \square \square \square$-B4S


| Operating <br> characteristics | D4NL- $\square \square \square \square-$ <br> B4S |
| :--- | :---: |
| Key insertion force <br> Key extraction force | 15 N max. <br> 30 N max. |
| Pre-travel distance | 9 mm max. |
| Movement before <br> being locked | 3 mm min. |

Notes:

1. Unless otherwise specified, a tolerance of $\pm 0.4 \mathrm{~mm}$ applies to all dimensions. 2. There are fluctuations in the contact ON/OFF timing for Switches with multiple poles (2NC, 2NC/1NO, or 3NC). Confirm performance before application.

## Operation Keys



## Dimensions and Operating Characteristics (continued)

With Operating Key Inserted
D4NL + D4DS-K1
(with Front-inserted Operation Key)


D4NL + D4DS-K1
(with Top-inserted Operation Key)


D4NL + D4DS-K2
(with Top-inserted Operation Key)


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D4NL + D4DS-K3
(with Front-inserted Operation Key)


D4NL + D4DS-K5 (with Front-inserted Operation Key)


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D4NL + D4DS-K3
(with Top-inserted Operation Key)


D4NL + D4DS-K5
(with Top-inserted Operation Key)
 SeCHNOLOGY
\&
INNOVATIO

## Application Examples

G9SA-321-T $\square$ (24 VAC/VDC) + D4NL- $\square$ A $\square$ A- $\square,-\square \mathbf{A} \square \mathbf{B}-\square,-\square \mathbf{A} \square \mathbf{C}-\square$ (Mechanical Lock Type) Circuit Diagram (Manual Reset)


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## Ordering

## Model Number Structure

## Switch

## 

(1) Conduit Size

1: Pg13.5
2: G1/2
4. M20
(2) Built-in Switch (with Door Open/Closed Detection Switch and Lock Monitor Switch Contacts)
A: $1 \mathrm{NC} / 1 \mathrm{NO}$ (slow-action contacts) $+1 \mathrm{NC} / 1 \mathrm{NO}$ (slow-action contacts)
B: $1 \mathrm{NC} / 1 \mathrm{NO}$ (slow-action contacts) +2 NC (slow-action contacts)
C: 2 NC (slow-action contacts) $+1 \mathrm{NC} / 1 \mathrm{NO}$ (slow-action contacts)
D: 2NC (slow-action contacts) + 2NC (slow-action contacts)
E: $2 \mathrm{NC} / 1 \mathrm{NO}$ (slow-action contacts) $+1 \mathrm{NC} / 1 \mathrm{NO}$ (slow-action contacts)
F: 2NC/1NO (slow-action contacts) + 2NC (slow-action contacts)
G: 3NC (slow-action contacts) + 1NC/1NO (slow-action contacts)
H: 3NC (slow-action contacts) +2 2NC (slow-action contacts)
(3) Head Mounting Direction and Material

F: Four mounting directions possible (Front-side mounting at shipping)/plastic
D: Four mounting directions possible (Front-side mounting at shipping)/metal
(4) Door Lock and Release

A: Mechanical lock/24 VDC solenoid release
B: Mechanical lock/110 VAC solenoid release*
G: 24 VDC solenoid lock/mechanical release
H: 110 VAC solenoid lock/mechanical release*
(5) Indicator

B: 10 to 115 VAC/VDC (orange LED indicator)
(6) Release Key Type

Blank: Standard
4: Special release key
(0) Release Key Position

Blank: Bottom
S: Front
(8) M20-to-NPT Adapter

Blank: Adapter is not included
NPT: Adapter is included

* 110 VAC version is not available for $-4 \square$-NPT models.


## Operation Key

D4DS-K $\square$
(1)
(1) Operation Key Type

1: Horizontal mounting
2: Vertical mounting
3: Adjustable mounting (horizontal)
5: Adjustable mounting (horizontal/vertical)


## Special Release Key



## Ordering (continued)

## List of Models

Switches with direct opening mechanisms (Operation Keys are sold separately)

| Head material | Release key position | Release key type | Solenoid voltage/ indicator | Lock and release types | Contact configuration (door open/closed detection switch and lock monitor switch contacts) (slow-action) Certified direct opening NC contact | Conduit opening | Model |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Plastic | Bottom | Standard | Solenoid: 24 VDC <br> Orange LED: 10 to 115 VAC/VDC | Mechanical lock Solenoid release | 1NC/1NO+1NC/1NO | M20 | D4NL-4AFA-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4AFA-B-NPT |
|  |  |  |  |  | 1NC/1NO+2NC | M20 | D4NL-4BFA-B |
|  |  |  |  |  |  | M20 with $1 / 2^{\prime \prime}$ NPT adaptor | D4NL-4BFA-B-NPT |
|  |  |  |  |  | 2NC+1NC/1NO | M20 | D4NL-4CFA-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4CFA-B-NPT |
|  |  |  |  |  | $2 \mathrm{NC}+2 \mathrm{NC}$ | M20 | D4NL-4DFA-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4DFA-B-NPT |
|  |  |  |  |  | 2NC/1NO+1NC/1NO | M20 | D4NL-4EFA-B |
|  |  |  |  |  |  | $\begin{aligned} & \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ & \text { adaptor } \\ & \hline \end{aligned}$ | D4NL-4EFA-B-NPT |
|  |  |  |  |  | 2NC/1NO+2NC | M20 | D4NL-4FFA-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4FFA-B-NPT |
|  |  |  |  |  | $3 \mathrm{NC}+1 \mathrm{NC} / 1 \mathrm{NO}$ | M20 | D4NL-4GFA-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4GFA-B-NPT |
|  |  |  |  |  | $3 N C+2 N C$ | M20 | D4NL-4HFA-B |
|  |  |  |  |  |  | $\begin{aligned} & \hline \text { M20 with } 1 / 2^{\prime \prime} \mathrm{NPT} \\ & \text { adaptor } \\ & \hline \end{aligned}$ | D4NL-4HFA-B-NPT |
|  |  |  |  | Solenoid lock Mechanical release | $1 \mathrm{NC} / 1 \mathrm{NO}+1 \mathrm{NC} / 1 \mathrm{NO}$ | M20 | D4NL-4AFG-B |
|  |  |  |  |  |  | $\begin{aligned} & \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ & \text { adaptor } \\ & \hline \end{aligned}$ | D4NL-4AFG-B-NPT |
|  |  |  |  |  | 1NC/1NO+2NC | M20 | D4NL-4BFG-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4BFG-B-NPT |
|  |  |  |  |  | $2 \mathrm{NC}+1 \mathrm{NC} / 1 \mathrm{NO}$ | M20 | D4NL-4CFG-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4CFG-B-NPT |
|  |  |  |  |  | $2 N C+2 N C$ | M20 | D4NL-4DFG-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4DFG-B-NPT |
|  |  |  |  |  | 2NC/1NO+1NC/1NO | M20 | D4NL-4EFG-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4EFG-B-NPT |
|  |  |  |  |  | $2 \mathrm{NC/1NO}+2 \mathrm{NC}$ | M20 | D4NL-4FFG-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4FFG-B-NPT |
|  |  |  |  |  | $3 \mathrm{NC}+1 \mathrm{NC} / 1 \mathrm{NO}$ | M20 | D4NL-4GFG-B |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4GFG-B-NPT |
|  |  |  |  |  | 3NC+2NC | M20 | D4NL-4HFG-B |
|  |  |  |  |  |  | $\begin{gathered} \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ \text { adaptor } \end{gathered}$ | D4NL-4HFG-B-NPT |

(Continued on next page)

Select models are available for Rapid Delivery.
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## Ordering (continued)

## List of Models (continued)

Switches with direct opening mechanisms (Operation Keys are sold separately)

| Head material | Release key position | Release key type | Solenoid voltage/ indicator | Lock and release types | Contact configuration (door open/closed detection switch and lock monitor switch contacts) (slow-action) Certified direct opening NC contact | Conduit opening | Model |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Plastic | Bottom | Special release key | Solenoid: 24 VDC Orange LED: 10 to 115 VAC/VDC | Mechanical lock Solenoid release | 1NC/1NO+1NC/1NO | M20 | D4NL-4AFA-B4 |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4AFA-B4-NPT |
|  |  |  |  |  | 1NC/1NO+2NC | M20 | D4NL-4BFA-B4 |
|  |  |  |  |  |  | M20 with $1 / 2^{\prime \prime}$ NPT adaptor | D4NL-4BFA-B4-NPT |
|  |  |  |  |  | 2NC+1NC/1NO | M20 | D4NL-4CFA-B4 |
|  |  |  |  |  |  | $\begin{gathered} \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ \text { adaptor } \\ \hline \end{gathered}$ | D4NL-4CFA-B4-NPT |
|  |  |  |  |  | $2 N C+2 N C$ | M20 | D4NL-4DFA-B4 |
|  |  |  |  |  |  | $\begin{gathered} \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ \text { adaptor } \\ \hline \end{gathered}$ | D4NL-4DFA-B4-NPT |
|  |  |  |  |  | $2 \mathrm{NC} / 1 \mathrm{NO}+1 \mathrm{NC/1NO}$ | M20 | D4NL-4EFA-B4 |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4EFA-B4-NPT |
|  |  |  |  |  | 2NC/1NO+2NC | M20 | D4NL-4FFA-B4 |
|  |  |  |  |  |  | $\begin{gathered} \hline \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ \text { adaptor } \\ \hline \end{gathered}$ | D4NL-4FFA-B4-NPT |
|  |  |  |  |  | $3 \mathrm{NC}+1 \mathrm{NC} / 1 \mathrm{NO}$ | M20 | D4NL-4GFA-B4 |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4GFA-B4-NPT |
|  |  |  |  |  | $3 N C+2 N C$ | M20 | D4NL-4HFA-B4 |
|  |  |  |  |  |  | M20 with $1 / 2^{\prime \prime}$ NPT adaptor | D4NL-4HFA-B4-NPT |
|  |  |  |  | 1NC/1NO+1NC/1NO |  | M20 | D4NL-4AFG-B4 |
|  |  |  |  |  |  | $\begin{gathered} \hline \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ \text { adaptor } \\ \hline \end{gathered}$ | D4NL-4AFG-B4-NPT |
|  |  |  |  | Solenoid lock Mechanical release | 1NC/1NO+2NC | M20 | D4NL-4BFG-B4 |
|  |  |  |  |  |  | M20 with $1 / 2^{\prime \prime}$ NPT adaptor | D4NL-4BFG-B4-NPT |
|  |  |  |  |  | 2NC+1NC/1NO | M20 | D4NL-4CFG-B4 |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4CFG-B4-NPT |
|  |  |  |  |  | $2 N C+2 N C$ | M20 | D4NL-4DFG-B4 |
|  |  |  |  |  |  | $\begin{gathered} \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ \text { adaptor } \\ \hline \end{gathered}$ | D4NL-4DFG-B4-NPT |
|  |  |  |  |  | 2NC/1NO+1NC/1NO | M20 | D4NL-4EFG-B4 |
|  |  |  |  |  |  | M20 with $1 / 2^{\prime \prime}$ NPT adaptor | D4NL-4EFG-B4-NPT |
|  |  |  |  |  | 2NC/1NO+2NC | M20 | D4NL-4FFG-B4 |
|  |  |  |  |  |  | M20 with $1 / 2^{\prime \prime}$ NPT adaptor | D4NL-4FFG-B4-NPT |
|  |  |  |  |  | $3 \mathrm{NC}+1 \mathrm{NC} / 1 \mathrm{NO}$ | M20 | D4NL-4GFG-B4 |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4GFG-B4-NPT |
|  |  |  |  |  | $3 N C+2 N C$ | M20 | D4NL-4HFG-B4 |
|  |  |  |  |  |  | M20 with 1/2" NPT adaptor | D4NL-4HFG-B4-NPTt |
| Metal |  |  |  | Mechanical lock <br> Solenoid release | 2NC/1NO+1NC/1NO | $\begin{gathered} \hline \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ \text { adaptor } \\ \hline \end{gathered}$ | D4NL-4EDA-B4-NPT |
|  |  |  |  |  | $3 \mathrm{NC}+1 \mathrm{NC/1NO}$ | M20 with 1/2" NPT adaptor | D4NL-4GDA-B4-NPT |
|  |  |  |  | Solenoid lock Mechanical release | 2NC/1NO+1NC/1NO | M20 with $1 / 2^{\prime \prime}$ NPT adaptor | D4NL-4EDG-B4-NPT |
|  |  |  |  |  | $3 \mathrm{NC}+1 \mathrm{NC} / 1 \mathrm{NO}$ | $\begin{aligned} & \text { M20 with } 1 / 2^{\prime \prime} \text { NPT } \\ & \text { adaptor } \\ & \hline \end{aligned}$ | D4NL-4GDG-B4-NPT |

Note: Consult factor for models with Korean S-mark certification.
Select models are available for Rapid Delivery.
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