## SUNS ${ }^{\circ}$

MP-1 Series Magnetic Safety Switches (IP68)

## Technical Specifications

| Housing material | Glassfiber Reinforced Plastics |
| :--- | :--- |
| Ambient temperature | -25 to $70^{\circ} \mathrm{C}\left(-13\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Degree of protection | IP 68 (IEC/EN 60529) |
| Switching voltage | 100 V AC/ DC 400 mA or |
| Switching current I max. | $230 \mathrm{VAC} \mathrm{2A} \mathrm{30VDC} \mathrm{1A}$ |
| Auxiliary contact | 24 V DC |
| Switching voltage <br> Switching current $I_{\text {emax }}$ | 10 mA |
| Method of operation | Magnetic, reed contact |
| Mech. life | 10 millions cycles |
| Vibration resistance | As per IEC/EN 60947-5-2 |
| Impact strength | $50 \mathrm{~g} / \mathrm{ms}$ |
| Shock resistance | $11 \mathrm{~g} / \mathrm{ms}$ |
| EMC compliance | In acc. with EN 61496-1/EN 50022 Part A |



* Dimensions of the actuators are the same as switches except without cable

| Item | Actuator Part Number | Switching Distance $S_{\text {on }}[\mathrm{mm}]$ | Circuit Diagram Gate Closed | Maximum Contact Ratings |
| :---: | :---: | :---: | :---: | :---: |
| MP1-D.03P | MP 1-M | Son : 6 mm | $\square^{-18}$ | 100 V AC/DC 400 mA |
| MP1-D.03PM | MP1. MM | Son : 9 mm | $\square^{10}$ |  |
| MP1-D.03PL | MP 1. ML | Son : 18 mm | $\square^{\text {NH}}$ |  |
| MP1.D.03S | MP 1-M | Son : 6 mm |  |  |
| MP1.D.035M | MP 1-MM | Son : 9 mm |  |  |
| MP1-D.03SL | MP 1-ML | Son : 18 mm |  |  |
| MP1-D. 11 | MP 1-M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ | $\square_{\square}^{81}{ }^{81}$ | 100 V AC/DC 400 mA |
| MP1-D.11M | MP 1. MM | $S_{\text {on }}: 9 \mathrm{~mm}$ Soff : 18 mm |  |  |
| MP1-D.11E | MP 1-M | $S_{\text {on }}: 6 \mathrm{~mm}$ S off $: 15 \mathrm{~mm}$ | $\square_{\square_{81}^{80}}^{8 \times}$ | 24 VDC 10 mA |
| MP1-D.11ME | MP 1. MM | $S_{\text {on }}: 9 \mathrm{~mm} \quad S_{\text {off }}: 18 \mathrm{~mm}$ |  |  |
| MP1-D. 125 | MP 1-M | Son : 6 mm S off $: 15 \mathrm{~mm}$ |  | 100 V AC/DC 400 mA |
| MP1-D.125M | MP 1- MM | $S_{\text {on }}: 9 \mathrm{~mm}$ Soff $: 18 \mathrm{~mm}$ |  |  |
| MP1-D.12SE | MP 1-M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ |  | 24 VDC 10 mA |
| MP1-D.125ME | MP 1- MM | $S_{\text {on }}: 9 \mathrm{~mm}$ Soff $: 18 \mathrm{~mm}$ |  |  |
| MP 1-D. 12 | MP 1-M | Son : 6 mm S off : 15 mm |  | 100 V AC/DC 400 mA |
| MP1-D.12M | MP 1. MM | Son : 9 mm Soff : 18 mm |  |  |
| MP1-D.12E | MP 1-M | $S_{\text {on }}: 6 \mathrm{~mm}$ Soff $: 15 \mathrm{~mm}$ |  | 24VDC 10 mA |
| MP1-D.12ME | MP 1-MM | $S_{\text {on }}: 9 \mathrm{~mm}$ Soff $: 18 \mathrm{~mm}$ |  |  |
| MP1-D.04E | MP 1-M | Son : 6 mm | $\square=\begin{gathered} 8 N \\ \mathrm{BE} \\ \mathrm{EN} \end{gathered}$ | 24 VDC 10 mA |
| MP1-D.04EM | MP 1-MM | Son : 9 mm | $\square \underbrace{}_{6}$ |  |
| MP1. D. 02 | MP 1-M | Son : 6 mm | ${ }^{81}$ | 100 V AC/ DC 400 mA |
| MP1.D.02M | MP1. MM | Son : 9 mm |  |  |
| MP1-A. 10 | MP 1-M | Son $: 6 \mathrm{~mm}$ | $\square^{80}$ | 230VAC 2A 30VDC 1A |
| MP1-A.10M | MP 1-MM | $S_{\text {on }}: 9 \mathrm{~mm}$ |  |  |

## SUNS ${ }^{\circ}$

MP-2 Series Magnetic Safety Switches (IP68)

## Technical Specifications

| Housing material | Glassfiber Reinforced Plastics |
| :---: | :---: |
| Ambient temperature | -25 to $70^{\circ} \mathrm{C}$ ( -13 to $158^{\circ} \mathrm{F}$ ) |
| Degree of protection | IP 68 (IEC/EN 60529) |
| Switching voltage <br> Switching current $I_{\text {e }}$ max. | $100 \mathrm{~V} \mathrm{AC/DC} 400 \mathrm{~mA}$ |
| Auxiliary contact <br> Switching voltage <br> Switching current $I_{\mathrm{e}}$ max. | $\begin{gathered} 24 \mathrm{~V} \text { DC } \\ 10 \mathrm{~mA} \end{gathered}$ |
| Method of operation | Magnetic, reed contact |
| Mech. life | 10 millions cycles |
| Vibration resistance | As per IEC/EN 60947-5-2 |
| Impact strength | $50 \mathrm{~g} / \mathrm{ms}$ |
| Shock resistance | $11 \mathrm{~g} / \mathrm{ms}$ |
| EMC compliance | In acc.with EN 61496-1/EN 50022 Part A |



## Ordering table

* Dimensions of the actuators are the same as switches except without cable

| Item | Actuator Part Number | Switching Distance Son [ mm] | Circuit Diagram Gate Closed | Maximum Contact Ratings |
| :---: | :---: | :---: | :---: | :---: |
| MP2. D. O3P | MP2. M | $S_{\text {on }}: 6 \mathrm{~mm}$ Soff : 15 mm | $\underbrace{\text { mil }}_{\underbrace{-5}}$ | 100 V AC/DC 400 mA |
| MP2. D. 035 | MP2. M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ | $\square_{\square}^{\square \square^{8 K}}$ | 100 V AC/DC 400 mA |
| MP2-D. 11 | MP2-M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ |  | 100 V AC/DC 400 mA |
| MP2-D.11E | MP2. M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ |  | $24 V D C 10 \mathrm{~mA}$ |
| MP2. D. 125 | MP2. M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ |  | 100 V AC/DC 400 mA |
| MP2-D.125E | MP2. M | $S_{\text {on }}: 6 \mathrm{~mm}$ Soff : 15 mm |  | $24 V D C 10 \mathrm{~mA}$ |
| MP2. D. 02 | MP2-M | $S_{\text {on }}: 6 \mathrm{~mm}$ Soff $: 15 \mathrm{~mm}$ |  | 100 V AC/DC 400 mA |
| MP2-D. 12 | MP2-M | Son : 6 mm Soff : 15 mm | ${ }^{1 i n}=\underbrace{80}$ | 100 V AC/ DC 400 mA |

## SUNS ${ }^{\circ}$

MP-3 Series Magnetic Safety Switches (IP68)

## Techical Specifications

| Housing material | Glassfiber Reinforced Plastics |
| :--- | :--- |
| Ambient temperature | -25 to $70{ }^{\circ} \mathrm{C}\left(-13\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Degree of protection | IP $68 \quad($ IEC/EN 60529) |
| Switching voltage | 100 V AC/ DC |
| Switching current $\mathrm{I}_{\mathrm{e}}$ max. | 400 mA |
| Auxiliary contact | 24 V DC |
| Switching voltage <br> Switching current $\mathrm{I}_{\mathrm{e}} \mathrm{max}$. | 10 mA |
| Method of operation | Magnetic, reed contact |
| Mech. life | 10 millions cyc1es |
| Vibration resistance | As per IEC/EN 60947-5-2 |
| Impact strength | $50 \mathrm{~g} / \mathrm{ms}$ |
| Shock resistance | $11 \mathrm{~g} / \mathrm{ms}$ |
| EMC compliance | In acc. with EN 61496-1/EN 50022 Part A |



## Ordering table

| Item | Actuator Part Number | Switching Distance Son [mm] | Circuit Diagram Gate Closed | Maximum Contact Ratings |
| :---: | :---: | :---: | :---: | :---: |
| MP30-D-03P | MP30-M | Son : 6 mm | $\underbrace{8}$ | $100 \mathrm{~V} \mathrm{AC/DC} 400 \mathrm{~mA}$ |
| MP30-D-03PM | MP30-MM | $S_{\text {on }}: 9 \mathrm{~mm}$ |  |  |
| MP30-D-03S | MP30-M | Son : 6 mm |  |  |
| MP30-D-03SM | MP30-MM | $S_{\text {on }}: 9 \mathrm{~mm}$ | $\square$ " NH |  |
| MP30-D-11 | MP30-M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ |  | $100 \mathrm{~V} \mathrm{AC/DC} 400 \mathrm{~mA}$ |
| MP30-D-11M | MP30-MM | $S_{\text {on }}: 9 \mathrm{~mm} \quad S_{\text {off }}: 18 \mathrm{~mm}$ |  |  |
| MP30-D-11E | MP30-M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ | $\square_{\square}^{8 K}$ | 24 VDC 10 mA |
| MP30-D-11ME | MP30-MM | $S_{\text {on }}: 9 \mathrm{~mm} \quad S_{\text {off }}: 18 \mathrm{~mm}$ | $\square{ }^{\text {w }}$ |  |
| MP30-D-12S | MP30-M | $S_{\text {on }}: 6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ |  | $100 \mathrm{~V} \mathrm{AC/DC} 400 \mathrm{~mA}$ |
| MP30-D-12SM | MP30-MM | $S_{\text {on }}: 9 \mathrm{~mm} \quad S_{\text {off }}: 18 \mathrm{~mm}$ |  |  |
| MP30-D-12SE | MP30-M | Son : $6 \mathrm{~mm} \quad S_{\text {off }}: 15 \mathrm{~mm}$ | $\square^{4}$ | 24 VDC 10 mA |
| MP30-D-12SME | MP30-MM | Son : $9 \mathrm{~mm} \quad S_{\text {off }}: 18 \mathrm{~mm}$ | $\square^{1 / 2}$ |  |
| MP30-D-02 | MP30-M | Son $: 6 \mathrm{~mm}$ S off $: 15 \mathrm{~mm}$ | $\square_{B K}^{B K}$ | $100 \mathrm{~V} \mathrm{AC/DC} 400 \mathrm{~mA}$ |
| MP30-D-02M | MP30-MM | $S_{\text {on }}: 9 \mathrm{~mm} \quad S_{\text {off }}: 18 \mathrm{~mm}$ | $\square_{\text {NH }}^{\text {BN }}$ |  |

MP-4 Series Magnetic Safety Switches (IP68)

## Techical Specifications

| Housing material | Glassfiber Reinforced Plastics |
| :--- | :--- |
| Ambient temperature | -25 to $70^{\circ} \mathrm{C}\left(-13\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Degree of protection | IP 68 (IEC/EN 60529) |
| Switching voltage | $100 \mathrm{~V} \mathrm{AC/DC} \mathrm{400mA} \mathrm{or}$ |
| Switching current $\mathrm{I}_{\mathrm{e}}$ max. | $230 \mathrm{VAC} 2 \mathrm{~A} \mathrm{30VDC} \mathrm{1A}$ |
| Auxiliary contact | 24 V DC |
| Switching voltage | 10 mA |
| Method of operation | Magnetic, reed contact |
| Mech. life | 10 milions cycles |
| Vibration resistance | As per IEC/EN 60947-5-2 |
| Impact strength | $50 \mathrm{~g} / \mathrm{ms}$ |
| Shock resistance | $11 \mathrm{~g} / \mathrm{ms}$ |
| EMC compliance | In acc. with EN 61496-1/EN 50022 Part A |

## Ordering table

| Item | Actuator Part Number | Switching Distance Son [mm] |  | Circuit Diagram Gate Closed | Maximum Contact Ratings |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MP4-A-10 | MP4-M | $\mathrm{Son}_{\text {on }}: 6 \mathrm{~mm}$ |  |  | 230VAC 2A |
| MP4-A-10M | MP4-MM | $\mathrm{S}_{\text {on }}: 9 \mathrm{~mm}$ |  | Bu | 30VDC 1A |
| MP4-D-03P | MP4-M | $\mathrm{S}_{\text {on }}: 6 \mathrm{~mm}$ |  | $\square^{\mathrm{BK}}$ |  |
| MP4-D-03PM | MP4-MM | $\mathrm{Son}_{\text {on }}: 9 \mathrm{~mm}$ |  | $\sim^{\text {WH }}$ | 100V AC/DC |
| MP4-D-03S | MP4-M | $\mathrm{Son}_{\text {on }}$ : mm |  | $\square^{B K}$ | $400 \mathrm{~mA}$ |
| MP4-D-03SM | MP4-MM | $\mathrm{Son}_{\text {on }} 9 \mathrm{~mm}$ |  | $\square{ }^{\text {WH }}$ |  |
| MP4-D-11 | MP4-M | $\mathrm{S}_{\text {on }}: 6 \mathrm{~mm}$ | $\mathrm{Soff}: 15 \mathrm{~mm}$ | $\square^{B K}{ }^{B K}$ | 100V AC/DC |
| MP4-D-11M | MP4-MM | Son $: 9 \mathrm{~mm}$ | $\mathrm{Soff}: 18 \mathrm{~mm}$ |  | 400mA |
| MP4-D-11E | MP4-M | Son :6mm | $\mathrm{Soff}: 15 \mathrm{~mm}$ | $\square \square_{\text {BU }}^{\text {BK }}$ | 24VDC |
| MP4-D-11EM | MP4-MM | $\mathrm{S}_{\text {on }}: 9 \mathrm{~mm}$ | Soff : 18 mm |  | 10 mA |
| MP4-D-12S | MP4-M | $\mathrm{Son}_{\text {on }}: 6 \mathrm{~mm}$ | $\mathrm{S}_{\text {off }}: 6 \mathrm{~mm}$ | $\square_{\square}^{\text {- }}{ }^{\text {BK }}$ | 100V AC/DC |
| MP4-D-12SM | MP4-MM | $\mathrm{Son}_{\text {on }}: 9 \mathrm{~mm}$ | $\mathrm{S}_{\text {off }}: 18 \mathrm{~mm}$ | $\square \mathrm{WH}$ | 400mA |
| MP4-D-12SE | MP4-M | Son $: 6 \mathrm{~mm}$ | $\mathrm{Soff}: 15 \mathrm{~mm}$ | $\square \square^{\text {BK }}$ | 24VDC |
| MP4-D-12SME | MP4-MM | Son 9 mm | $\mathrm{S}_{\text {off }}: 18 \mathrm{~mm}$ | $\square_{\mathrm{WH}}^{\mathrm{BN}}$ | 10 mA |
| MP4-D-12 | MP4-M | $\mathrm{S}_{\text {on }}: 6 \mathrm{~mm}$ | Soff $: 15 \mathrm{~mm}$ | GY | 100V AC/DC |
| MP4-D-12M | MP4-MM | Son 9 mm | $\mathrm{S}_{\text {off }}: 18 \mathrm{~mm}$ |  | 400 mA |
| MP4-D-12E | MP4-M | $\mathrm{S}_{\text {on }}: 6 \mathrm{~mm}$ | Soff $: 15 \mathrm{~mm}$ | GY | 24VD |
| MP4-D-12ME | MP4-MM | $\mathrm{S}_{\text {on }}: 9 \mathrm{~mm}$ | $\mathrm{Sofff}: 18 \mathrm{~mm}$ | $\mathrm{wn}_{\mathrm{BH}}$ | 10 mA |

MP-5 Series Magnetic Safety Switches (IP68)

## Techical Specifications

| Housing material | Glassfiber Reinforced Plastics |
| :--- | :--- |
| Ambient temperature | -25 to $70^{\circ} \mathrm{C}\left(-13\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Degree of protection | IP 68 (IEC/EN 60529) |
| Switching voltage | $100 \mathrm{~V} \mathrm{AC/DC} \mathrm{400mA} \mathrm{or}$ |
| Switching current I max. | $230 \mathrm{VAC} 2 \mathrm{~A} \mathrm{30VDC} \mathrm{1A}$ |
| Auxiliary contact | 24 V DC |
| Switching voltage | 10 mA |
| Method of operation | Magnetic, reed contact |
| Mech. life | 10 millions cycles |
| Vibration resistance | As per IEC/EN 60947-5-2 |
| Impact strength | $50 \mathrm{~g} / \mathrm{ms}$ |
| Shock resistance | $11 \mathrm{~g} / \mathrm{ms}$ |
| EMC compliance | In acc. with EN 61496-1/EN 50022 Part A |

## Ordering table



| Item | Actuator Part Number | Switching Son | Distance mm ] | Circuit Diagram Gate Closed | Maximum Contact Ratings |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MP5-A-10 | MP5-M |  | 6 mm |  | 230VAC 2A |
| MP5-A-10M | MP5-MM |  | 9 mm | -BU | 30VDC 1A |
| MP5-D-03P | MP5-M |  | 6 mm | $\text { — }_{\text {BN }}^{\mathrm{BK}}$ | $\begin{aligned} & 100 \mathrm{~V} \mathrm{AC} / \mathrm{DC} \\ & 400 \mathrm{~mA} \end{aligned}$ |
| MP5-D-03PM | MP5-MM |  | 9 mm |  |  |
| MP5-D-03S | MP5-M |  | 6 mm |  |  |
| MP5-D-03SM | MP5-MM |  | 9 mm |  |  |
| MP5-D-11 | MP5-M | $\mathrm{Som}_{\text {on }}: 6 \mathrm{~mm}$ | $\mathrm{S}_{\text {off }}: 15 \mathrm{~mm}$ | $\begin{array}{r} \text { _BK } \\ \text { _Bu }^{B U} \end{array}$ | $\begin{aligned} & 100 \mathrm{~V} \mathrm{AC} / \mathrm{DC} \\ & 400 \mathrm{~mA} \end{aligned}$ |
| MP5-D-11M | MP5-MM | $\mathrm{Son}_{\text {on }}: 9 \mathrm{~mm}$ | $\mathrm{Sofff}^{\text {: }} 18 \mathrm{~mm}$ |  |  |
| MP5-D-11E | MP5-M | $\mathrm{Son}_{\text {on }}: 6 \mathrm{~mm}$ | $\mathrm{S}_{\text {off }}: 15 \mathrm{~mm}$ | - $\square_{\text {\%U }}^{\text {BK }}$ | $\begin{aligned} & 24 \mathrm{VDC} \\ & 10 \mathrm{~mA} \end{aligned}$ |
| MP5-D-11EM | MP5-MM | Son $: 9 \mathrm{~mm}$ | $\mathrm{Soff}: 18 \mathrm{~mm}$ |  |  |
| MP5-D-12S | MP5-M | $\mathrm{Son}_{\text {on }} 6 \mathrm{~mm}$ | Soff 6 mm | $\square^{\text {- }}{ }^{\text {BU }}$ | $\begin{aligned} & 100 \mathrm{~V} \mathrm{AC} / \mathrm{DC} \\ & 400 \mathrm{~mA} \end{aligned}$ |
| MP5-D-12SM | MP5-MM | $\mathrm{S}_{\text {on }}: 9 \mathrm{~mm}$ | $\mathrm{S}_{\text {off }}: 18 \mathrm{~mm}$ |  |  |
| MP5-D-12SE | MP5-M | $\mathrm{Son}_{\text {on }} 6 \mathrm{~mm}$ | $\mathrm{S}_{\text {off }}: 15 \mathrm{~mm}$ | \% BU | 24VDC <br> 10 mA |
| MP5-D-12SME | MP5-MM | $\mathrm{S}_{\text {on }}: 9 \mathrm{~mm}$ | $\mathrm{Sofff}: 18 \mathrm{~mm}$ | $\sim_{\text {WH }}$ |  |
| MP5-D-12 | MP5-M | $\mathrm{S}_{\text {on }}: 6 \mathrm{~mm}$ | $\mathrm{S}_{\text {off }}: 15 \mathrm{~mm}$ | GY | $\begin{aligned} & 100 \mathrm{~V} \mathrm{AC} / \mathrm{DC} \\ & 400 \mathrm{~mA} \end{aligned}$ |
| MP5-D-12M | MP5-MM | $\mathrm{Son}_{\text {on }}: 9 \mathrm{~mm}$ | $\mathrm{Sofft}: 18 \mathrm{~mm}$ | $\mathrm{WH}^{\square} \mathrm{BN}$ |  |
| MP5-D-12E | MP5-M | $\mathrm{Son}_{\text {on }} 6 \mathrm{~mm}$ | $\mathrm{S}_{\text {off }}: 15 \mathrm{~mm}$ |  | $\begin{aligned} & 24 \mathrm{VDC} \\ & 10 \mathrm{~mA} \end{aligned}$ |
| MP5-D-12ME | MP5-MM | $\mathrm{Son}_{\text {on }}: 9 \mathrm{~mm}$ | $\mathrm{Soff}: 18 \mathrm{~mm}$ |  |  |

MP-6 Series Magnetic Safety Switches (IP68)

## Techical Specifications

| Housing material | Glassfiber Reinforced Plastics |
| :---: | :---: |
| Ambient temperature | -25 to $70^{\circ} \mathrm{C}$ ( -13 to $158^{\circ} \mathrm{F}$ ) |
| Degree of protection | IP 68 (IEC/EN 60529) |
| Switching voltage <br> Switching current $\mathrm{I}_{\mathrm{e}}$ max. | 100 V AC/DC 400 mA or 230VAC 2A 30VDC 1A |
| Auxiliary contact Switching voltage | $\begin{aligned} & 24 \mathrm{~V} \text { DC } \\ & 10 \mathrm{~mA} \end{aligned}$ |
| Method of operation | Magnetic, reed contact |
| Mech. life | 10 millions cycles |
| Vibration resistance | As per IEC/EN 60947-5-2 |
| Impact strength | $50 \mathrm{~g} / \mathrm{ms}$ |
| Shock resistance | $11 \mathrm{~g} / \mathrm{ms}$ |
| EMC compliance | In acc. with EN 61496-1/EN 50022 Part A |

## Ordering table



## Features

- Robust metal housing
- Large wiring compartment
- High resistance to vibration
- High switching capacity
- IEC 60947-5-3, EN 954-1
- Long switching distance



## Techical Specifications

| Housing material | Aluminum die cast |
| :---: | :---: |
| Ambient temperature | -25 to $90^{\circ} \mathrm{C} \quad(-13$ to 194 F$)$ |
| Degree of protection | IP 67 (IEC/EN 60529) |
| Safety Contact Rating | 250Vac / 3Amps max. 120VA/W |
| Dielectric Strength | > 600VAC ( $50 / 60 \mathrm{~Hz}$ ) |
| Switching time | Close: $0.3-1.5 \mathrm{~ms}$ Open: 0.5 ms (max) |
| Contact Configuration | 1NO/1NC |
| Actuating Speed | 18m/s (max) |
| Switching Accuracy | +/- 0.25 mm |
| Switching Distance | 35mm |
| Method of operation | Magnetic, reed contact |
| Mech. life | 10 millions cycles |
| Vibration resistance | As per IEC/EN 60947-5-2 |
| Impact strength | $50 \mathrm{~g} / \mathrm{ms}$ |
| Shock resistance | $11 \mathrm{~g} / \mathrm{ms}$ |
| EMC compliance | In acc. with EN 61496-1/EN 50022 Part A |



## RDS SERIES RFID NON-CONTACT SAFETY SWITCH

## Features

- Actuation without contact, using RFID technology
- Digitally coded actuator
- 3 LEDs for status display
- Connecting up to 32 sensors in series
- Short-circuit protection, polarity-reversing protection
- Safety category: up to SIL 3, PL e and Category 4

Specifications

| Operating voltage | 24 VDC |
| :--- | :--- |
| Operating current | $<20 \mathrm{~mA}$ |
| Max. output current | 200 mA |
| For safety applications | SIL3 acc. to EN 62061 <br> up to |
| TLe acc. to EN ISO 13849-1 |  |
| Housing material | Fiber-reinforced plastic |
| Operating temperature | $-25^{\circ}+70^{\circ}$ |
| Switching frequency | 2 Hz |
| Sensing distance | 10 mm |
| Enclosure protection | $\mathrm{IP69K}$ |

## Selection Guide:



* For actuator only, part number would be: RDA1, RDA2 or RDA3 followed by -S or -E * Low level means the sensor recognises all low level coded actuactors. High level are defined by one to one correspondence
${ }_{* * *}$ Blank actuators sold separately can be programmed into high level actuators by putting them near the intended sensor and waiting for RFID_OUT Led blinking 5 times.

Pictures:


Dimensions:
Sensor


## Wiring Diagram:

| Brown | VCC $(10-30 \mathrm{~V})$ |
| :--- | :--- |
| Blue | GND (Ground line) |

Orange GPIO_OUT (Safety output)
Red GPIO_OUT (Safety output)
Green RFID_OUT (RFID authentication through output)
White IN1 (input 1)
Yellow IN2 (input 2)
Black PROGRAM (Programming mouth)


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