

Datasheet - SDG01.1103

Safety switch with separate actuator / SDG



- Metal enclosure
- 50 mm x 152 mm x 43 mm
- Long life
- Head positioned to the front

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	SDG01.1103
Article number	101016704
EAN code	

Approval

Approval




Classification

Standards	EN ISO 13849-1
B _{10d} Normally-closed contact (NC)	2.000.000
B _{10d} Normally open contact (NO)	1.000.000
Mission time notice	20 Years
	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$
	$n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Product name	SDG
Standards	EN 60947-5-1, BG-GS-ET-15, EN 1088

Compliance with the Directives (Y/N) 

Yes

Materials

- Material of the housings
- Material of the contacts

Aluminium

Silver

Housing coating

painted

Weight

400 g

Mechanical data

Design of electrical connection

Screw connection

Cable section

- Min. Cable section
- Max. Cable section

0,5 mm²

2.5 mm²

Mechanical life

1.000.000 operations

notice

All indications about the cable section are including the conductor ferrules.

higher Latching force (Y/N)

No

Positive break force

5 N for each NC contact fitted

positive break travel

11 mm

Ambient conditions

Ambient temperature

- Min. environmental temperature
- Max. environmental temperature

-25 °C

+70 °C

Protection class

IP67 to IEC/EN 60529

Electrical data

Design of control element

Normally open contact (NO), Opener (NC)

Switching principle

Creep circuit element

Number of auxiliary contacts

1 piece

Number of safety contacts

2 piece

Rated impulse withstand voltage U_{imp}

2.5 kV

Rated insulation voltage U_i

400 V

Thermal test current I_{the}

10 A

Utilisation category

AC-15: 230 V / 8 A
DC-13: 24 V / 5 A

Max. fuse rating

10 A gG D-fuse

ATEX

Explosion protection categories for gases

None

Explosion protected category for dusts

None

Dimensions

Dimensions of the sensor

- Width of sensor
- Height of sensor
- Length of sensor

50 mm

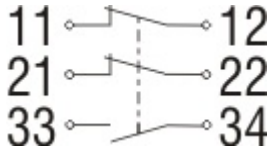
152 mm

43 mm

Included in delivery

Actuators must be ordered separately.

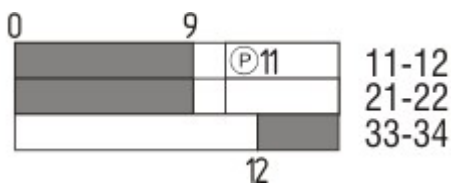
Diagram



Note Diagram

- positive break NC contact
- active
- no active
- Normally-open contact
- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

- Contact closed
- Contact open
- Setting range
- Break point
- Positive opening sequence/- angle
- VS** adjustable range of NO contact
- VÖ** adjustable range of NC contact
- N** after travel

Ordering code

SDG(1)/(2)

(1)

1.0	Head positioned to the front
02	Head positiones to the left
3.0	Head positioned to the right
04	Head positioned to the rear

(2)

1103	2 Opener (NC) / 1 Normally open contact (NO) Creep circuit element
3330	3 Opener (NC) Creep circuit element
3440	3 Opener (NC) gradually Creep circuit element
1044	1 Opener (NC) / 2 Normally open contact (NO) Creep circuit element

Documents

Datasheet (en) 337 kB, 01.07.2011

Code: g_sdgp01

Operating instructions and Declaration of conformity (it) 821 kB, 09.09.2010

Code: mrl_shg-scg-sdg_it

Operating instructions and Declaration of conformity (jp) 632 kB, 05.07.2011

Code: mrl_shg-scg-sdg_jp

Operating instructions and Declaration of conformity (fr) 823 kB, 09.09.2010

Code: mrl_shg-scg-sdg_fr

Operating instructions and Declaration of conformity (de) 546 kB, 08.11.2010

Code: mrl_shg-scg-sdg_de

Operating instructions and Declaration of conformity (nl) 824 kB, 10.09.2010

Code: mrl_shg-scg-sdg_nl

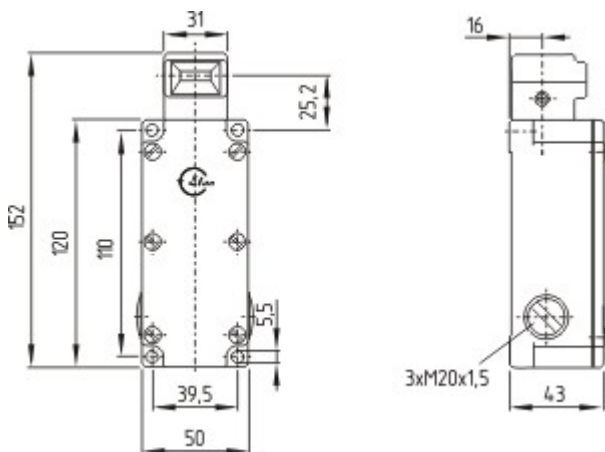
Operating instructions and Declaration of conformity (es) 822 kB, 10.09.2010

Code: mrl_shg-scg-sdg_es

Operating instructions and Declaration of conformity (en) 549 kB, 08.11.2010

Code: mrl_shg-scg-sdg_en

Images



Dimensional drawing (basic component)

System components

Actuator



101025451 - BOF/HIS.2

- Minimum actuating radius 400 mm
 - Flexible actuator
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101025450 - BOF/HIS.1

- Minimum actuating radius 400 mm
- Flexible actuator



101014463 - BOWR

- Minimum actuating radius 350 mm
- Angled actuator



101014461 - BOR

- Minimum actuating radius 350 mm
- Straight actuator



101014462 - BOW

- Minimum actuating radius 400 mm
- Angled actuator



101014460 - BO

- Minimum actuating radius 400 mm
- Straight actuator

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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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Image

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