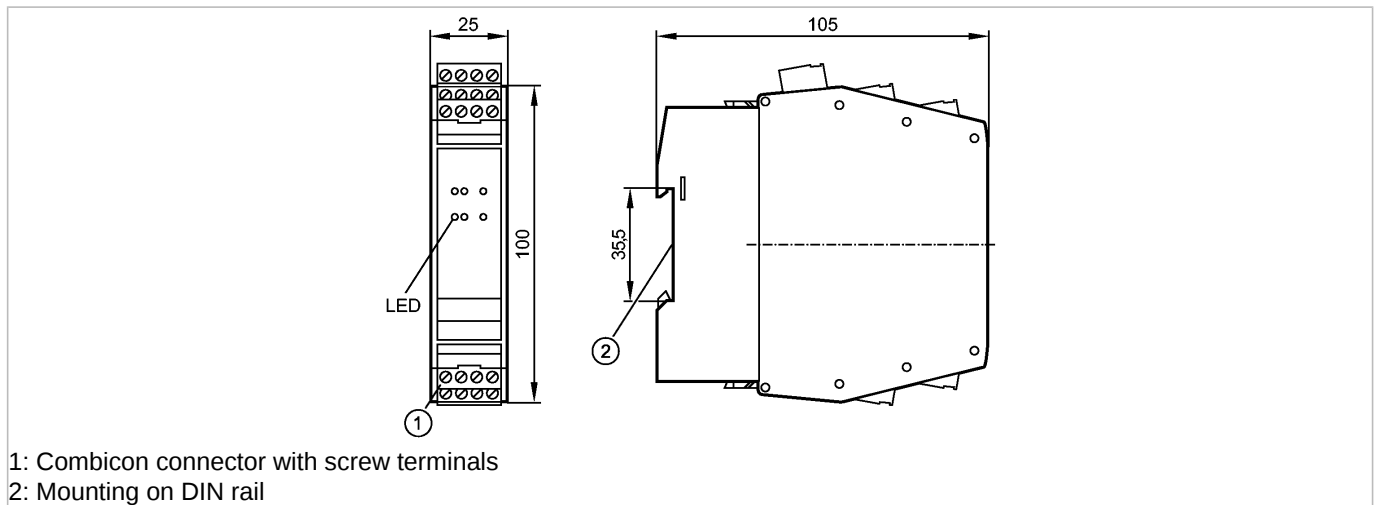


DA101S

Safety Standstill Monitor

Evaluation systems



1: Combicon connector with screw terminals
2: Mounting on DIN rail

Made in Germany



Product characteristics

Safety Standstill Monitor

Evaluation system for safe standstill monitoring

for 2 pnp switching sensors

4 switch points selectable

Error message

Complies with the requirements:
EN ISO 13849-1: category 4 PL e
IEC 61508: SIL 3

Application

Application

Monitoring rotational or linear movements for minimum switch point not reached (standstill)

Electrical data

Electrical design

Relay

Operating voltage [V]

24 DC (19.2...30 DC); incl. 5 % residual ripple

Current consumption [mA]

≤ 200

Protection class

II

Power-on delay time [s]

6

Sensor supply

24 V DC / ≤ 50 mA

Inputs

Input characteristics

Pulse inputs S34, S43:

"1": ≥ 11 V, ≤ 10 mA

"0": ≤ 5 V, ≤ 2 mA

Input voltage: ≤ 36 V

Input frequency [Hz]

≤ 3500

Outputs

Output function

2 safety-related switching outputs (floating contacts); 1 fault output (positive switching)

Contact rating

6 A, 250 V AC / 24 V DC (≥ 6 mA)

Switching cycles (mechanical)

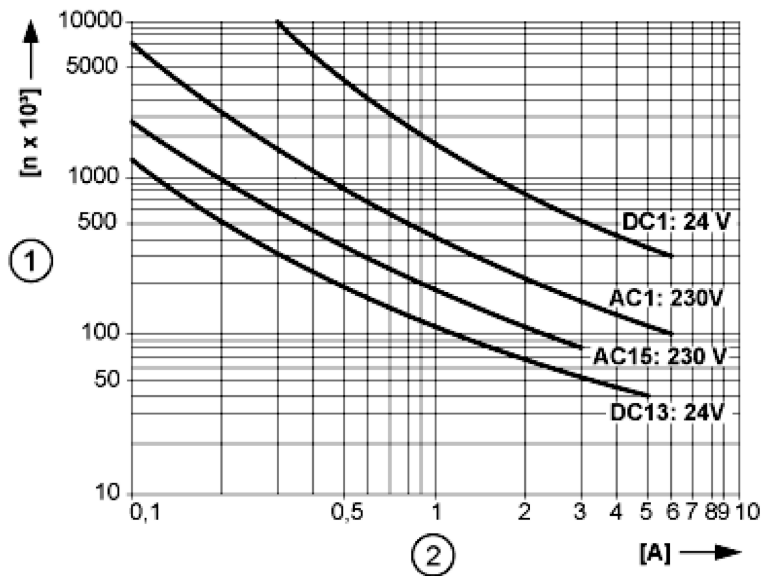
> 10000 x 10³

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Switching cycles (electrical)



1: switching cycles; 2: switching current

Max. switching capacity (DIN EN 60947-5-1 / EN 60947-5-1)

AC1: 250 V / 6 A
 AC15: 230 V / 3 A
 DC1: 24 V / 6 A
 DC13: 24 V / 5 A / 0.1 Hz
 UL 508: B300 / R300

Short-circuit protection

The contacts are to be protected by means of fuses with a nominal current of < 3.6 A.

Switch points

0.2 / 0.5 / 1.0 / 2.0 Hz

Switching function

Switching outputs 13-14 and 23-24 closed with standstill
 Y7 transistor output open (LOW) with fault

Accuracy / deviations

Hysteresis [%] ± 5

Environment

Ambient temperature [°C] -25...55

Protection IP 20

Safety classification

Mission time TM [h] ≤ 175200, (20 years)

Test interval T1 [Years] 0.5

Safety-related reliability PFHd [1/h] 3.38 E-09

Mechanical data

Housing materials PA (polyamide)

Weight [kg] 0.288

Displays / operating elements

Display	Voltage	green
	Fault	red
	Switching status	2x yellow
	Input pulses	2x yellow

Electrical connection

Connection Terminal block Phoenix Contact MSTBO

Accessories

Accessories (included) Combicon connector with screw terminals

Remarks

**DA101S**

Safety Standstill Monitor

Evaluation systems

Remarks

Additional comments concerning the cULus approval (UL 508):

- Maximum ambient temperature 55°C (in the control cabinet)
- The safety functions were not assessed by UL. The approval has been made according to UL 508 for general applications.
- Use 60/75°C copper conductors only.
- For use in pollution degree 2 environment
- Same polarity (phase) referred to the output contacts

Pack quantity

[piece]

1