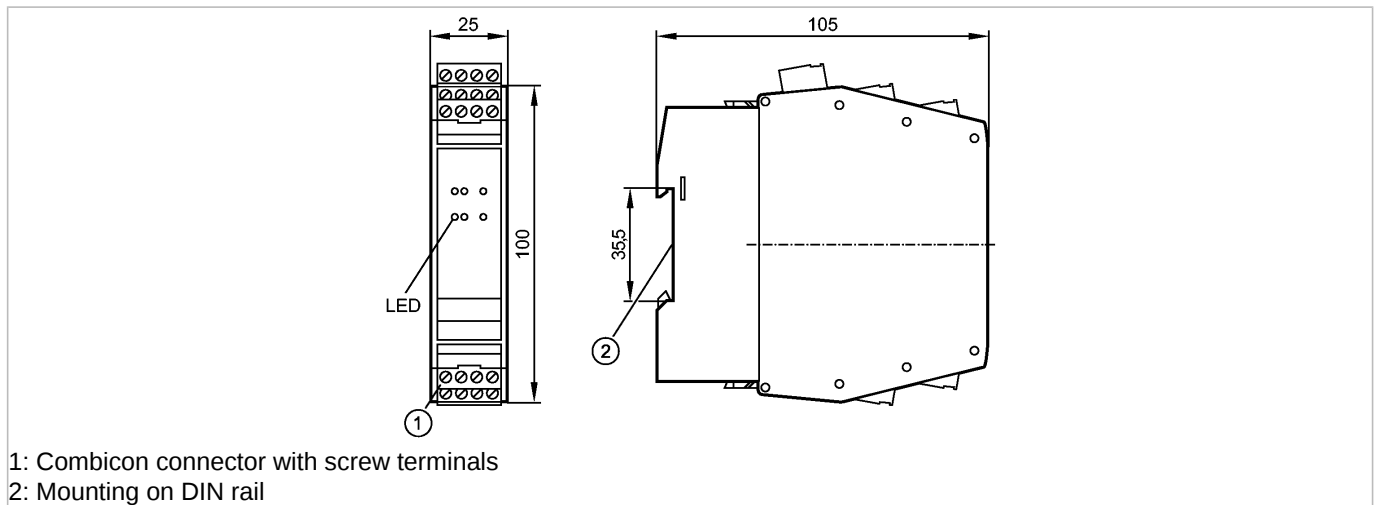


DA102S

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	
without start-up 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

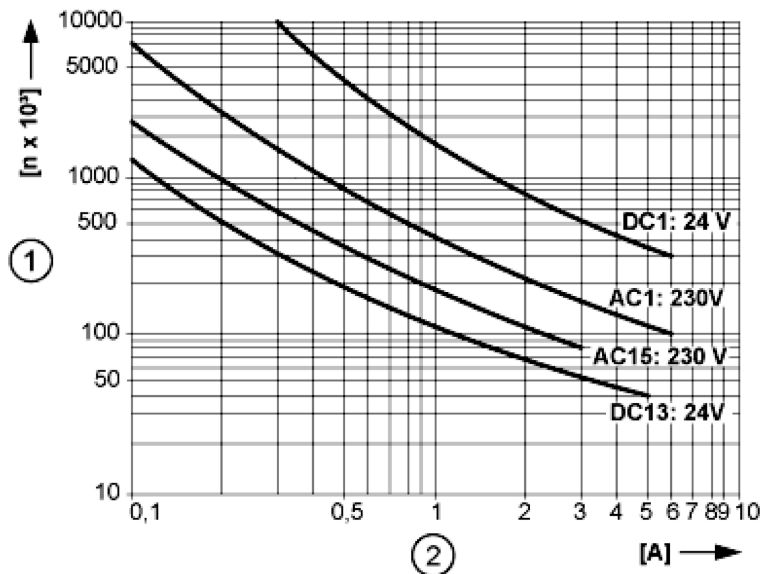
Outputs	
Output function	2 safety-related switching outputs (floating contacts); 1 fault output (positive switching)
Contact rating	6 A, 250 V AC / 24 V DC (≥ 6 mA)
Switching cycles (mechanical)	> 10000 x 10 ³

DA102S

Safety Standstill Monitor

Evaluation systems

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] 0.295

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



DA102S

Safety Standstill Monitor

Evaluation systems

Pack quantity	[piece]	1
---------------	---------	---