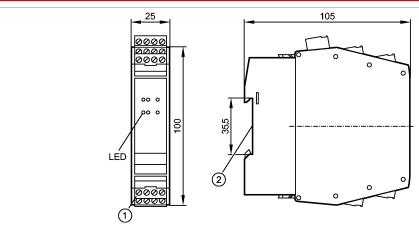
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#### **DA101S**

Safety Standstill Monitor Evaluation systems





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



Product cha	aracteristics

Safety standstill monitor for underspeed detection

Evaluation system for safe standstill monitoring

with start-up monitoring

for 2 pnp switching sensors

4 switch points selectable

Error message

A 12 42

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)

Start-up monitoring

After first application of the operating voltage, the standstill monitor first waits for pulses at the input before closing the enabling contacts upon the next standstill.

The protective guard cannot be opened before the first start of the machine.

Electrical data		
Electrical design		Relay
Operating voltage	[V]	24 DC (19.230 DC); incl. 5 % residual ripple
Current consumption	[mA]	≤ 200
Protection class		II
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	
Max. power-on delay time of the		
sensors [ms]	≤ 100	
Input frequency [Hz]	≤ 3500	

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

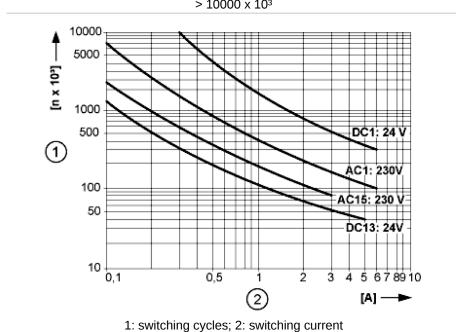
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#### **DA101S**

Switching cycles (electrical)



Safety Standstill Monitor **Evaluation systems** Contact rating 6 A, 250 V AC / 24 V DC (≥ 6 mA) Switching cycles (mechanical) > 10000 x 10<sup>3</sup>



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

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	
Reaction times				
Power-on delay time	[s]		6	
Environment				
Ambient temperature	[°C]		-2555	
Protection			IP 20	
Safety classification				
Mission time TM	[h]		≤ 175200, (20 year	s)
Test interval T1 [Y	rears]		0.5	
Safety-related reliability PFHd	[1/h]		3.38 E-09	
Mechanical data				
Housing materials			PA (polyamide)	
Weight	[kg]	0.288		
Displays / operating element	s			
Display		•	green Red	

Switching status 2x yellow

2x yellow

Input pulses

#### **Electrical connection**

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### **DA101S**

Safety Standstill Monitor



Connection		Terminal block Phoenix Contact MSTBO		
Accessories				
Accessories (included)		Combicon connector with screw terminals		
Remarks				
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		
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replaced by: DA102S Discontinued article				