



SSW301HV-115V

- Fail-safe standstill monitors
- This fail-safe standstill monitor has the particular advantage that no adjustment for a required-value is needed during commissioning.
- 3 safety contacts, STOP 0
- Control category 4 to ISO 13849-1

Data

Ordering data

EAN (European Article Number)	4250116202607
eCl@ss number, Version 9.0	27-37-18-19
eCl@ss number, Version 11.0	27-37-18-19
ETIM number, version 6.0	EC001449

Approval - Standards

Certificates	cULus
	CCC
	EAC

General data

Standards	IEC 61508 IEC/EN 60204-1 EN 60947-5-1 EN ISO 13849-1
Climatic stress	EN 60068-2-78
Enclosure material	Glass-fibre, reinforced thermoplastic

Material of the contacts, electrical	AgSn0 + Au, self-cleaning, positive drive
Gross weight	500 g

General data - Features

Stop-Category	0
Wire breakage detection	Yes
Short-circuit recognition	Yes
Feedback circuit	Yes
Automatic reset function	Yes
Earth connection detection	Yes
Integral System Diagnostics, status	Yes
Number of auxiliary contacts	1
Number of LEDs	5
Number of safety contacts	3

Safety appraisal

Standards	EN ISO 13849-1 IEC 61508
Mission Time	20 Year(s)
Common Cause Failure (CCF), minimum	65

Safety appraisal - Relay outputs

Performance level, stop 0, up to	e
Category, Stop 0	4
Diagnostic Coverage (DC) Level, Stop 0	≥ 99 %
PFH-Value Stop 0	2.00×10^{-8} /h
Safety Integrity Level (SIL), Stop 0, suitable for applications in	3

Mechanical data

Mechanical life, minimum	10,000,000 Operations
Mounting	Snap onto standard DIN rail to EN 60715

Mechanical data - Connection technique

Terminal Connector	Screw connection rigid or flexible
Terminal designations	IEC/EN 60947-1
Cable section, minimum	0.25 mm ²
Cable section, maximum	2.5 mm ²
Tightening torque of Clips	0.6 Nm

Mechanical data - Dimensions

Width	90 mm
Height	83 mm
Depth	127 mm

Ambient conditions

Degree of protection of the enclosure	IP40
Degree of protection of the mounting space	IP54
Degree of protection of clips or terminals	IP20
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+45 °C
Storage and transport temperature, minimum	-40 °C
Storage and transport temperature, maximum	+85 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, Amplitude 0.35 mm
Resistance to shock	30 g / 11 ms

Ambient conditions - Insulation value

Rated impulse withstand voltage U_{imp}	4 kV
---	------

Degree of pollution to IEC/EN 60664-1	2
---------------------------------------	---

Electrical data

Rated operating voltage	115 VAC -15% / +10%
-------------------------	---------------------

Rated AC voltage for controls, 50 Hz, minimum	97.8 VAC
---	----------

Rated control voltage at AC 50 Hz, maximum	126.5 VAC
--	-----------

Rated AC voltage for controls, 60 Hz, minimum	97.8 VAC
---	----------

Rated control voltage at AC 60 Hz, maximum	126.5 VAC
--	-----------

Electrical power consumption, maximum	4 W
---------------------------------------	-----

Contact resistance, maximum	0.1 Ω
-----------------------------	--------------

Note (Contact resistance)	in new state
---------------------------	--------------

Drop-out delay in case of "emergency stop", maximum	15 ms
---	-------

Pull-in delay at automatic start (after detecting standstill), approx.	7,000 ms
--	----------

Electrical data - Safe relay outputs

Voltage, Utilisation category AC15	230 VAC
------------------------------------	---------

Current, Utilisation category AC-15	6 A
-------------------------------------	-----

Voltage, Utilisation category DC13	24 VDC
------------------------------------	--------

Current, Utilisation category DC13	6 A
------------------------------------	-----

Switching capacity, minimum	10 VDC
-----------------------------	--------

Switching capacity, minimum	10 mA
-----------------------------	-------

Switching capacity, maximum	250 VAC
-----------------------------	---------

Switching capacity, maximum	8 A
-----------------------------	-----

Electrical data - Digital inputs

Conduction resistance, maximum	40 Ω
--------------------------------	------

Electrical data - Relay outputs (auxiliary contacts)

Switching capacity, maximum	24 VDC
-----------------------------	--------

Switching capacity, maximum	2 A
-----------------------------	-----

Electrical data - Electromagnetic compatibility (EMC)

EMC rating	EMC-Directive
------------	---------------

Status indication

Indicated operating states	OUT, green: release switching condition UB: Supply voltage on ERR: Error functional defect
----------------------------	---

Other data

Note (applications)	safe standstill monitoring
---------------------	----------------------------

Notes

Note (General)	Inductive loads (e.g. contactors, relays, etc.) are to be suppressed by means of a suitable circuit.
----------------	--

Circuit example

Note (Wiring diagram)	OUT: Enabling safety contacts 13-14, 23-24 closed
-----------------------	---

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 11/9/2021, 9:14 AM