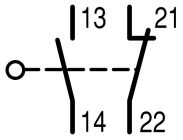
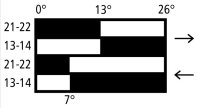
Position switches; 1N/O+1N/C; spring-rod head; M12A

Part no. LS-11S/S-M12A
Article no. 178145
Catalog No. LS-11S/S-M12A

Powering Business Worldwide

Delivery program

Basic function			Position switches
Part group reference			LS(M)-…
Product range			Spring-rod actuator
Degree of Protection			IP66
Equipment supplied			with M12 connector
Features			Complete device
Ambient temperature		°C	-25 - +70
Snap-action contact			Yes
Description			Not to be used as a safety position switch
Contacts			
N/O = Normally open			1 N/O
N/C = Normally closed			1 NC
Contact sequence			
Contact travel■ = Contact closed□ = Contact open			
Colour			
Enclosure covers			Yellow
Enclosure covers			
Housing			Insulated material
Connection type			Cage Clamp
Notes			Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany. Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago Article No. 264-402
Rod length		mm	126

Technical data

General

Standards			IEC/EN 60947
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30
Ambient temperature		°C	-25 - +70
Mounting position			As required
Degree of Protection			IP66
Terminal capacities		mm^2	
Solid		mm^2	1 x (0.5 - 2.5)
Flexible with ferrule		mm^2	1 x (0.5 - 1.5)

Contacts/switching capacity

Rated impulse withstand voltage	U_{imp}	V AC	2500
Rated insulation voltage	U_i	V	250
Overvoltage category/pollution degree			III/3

Rated operational current	I_e	A	
AC-15			
24 V	I_e	A	6
115 V	I_e	A	4
220 V 230 V 240 V	I_e	A	1
380 V 400 V 415 V	I_e	A	4
DC-13			
24 V	I_e	A	3
110 V	I_e	A	0.8
220 V	I_e	A	0.3
Control circuit reliability			
at 24 V DC/5 mA	H_F	Fault probability	$< 10^{-7}$, < 1 fault in 107 operations
at 5 V DC/1 mA	H_F	Fault probability	$< 10^{-6}$, < 1 failure at 5 x 10^6 operations
Supply frequency		Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1			
max. fuse		A gG/gL	4
Repetition accuracy		mm	0.15
Rated conditional short-circuit current		kA	1

Mechanical variables

Lifespan, mechanical	Operations	x 10^6	8
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	25
Operating frequency	Operations/h		6000

Actuation

Mechanical			
Actuating torque of rotary drives		Nm	0.2

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70

Technical data ETIM 6.0

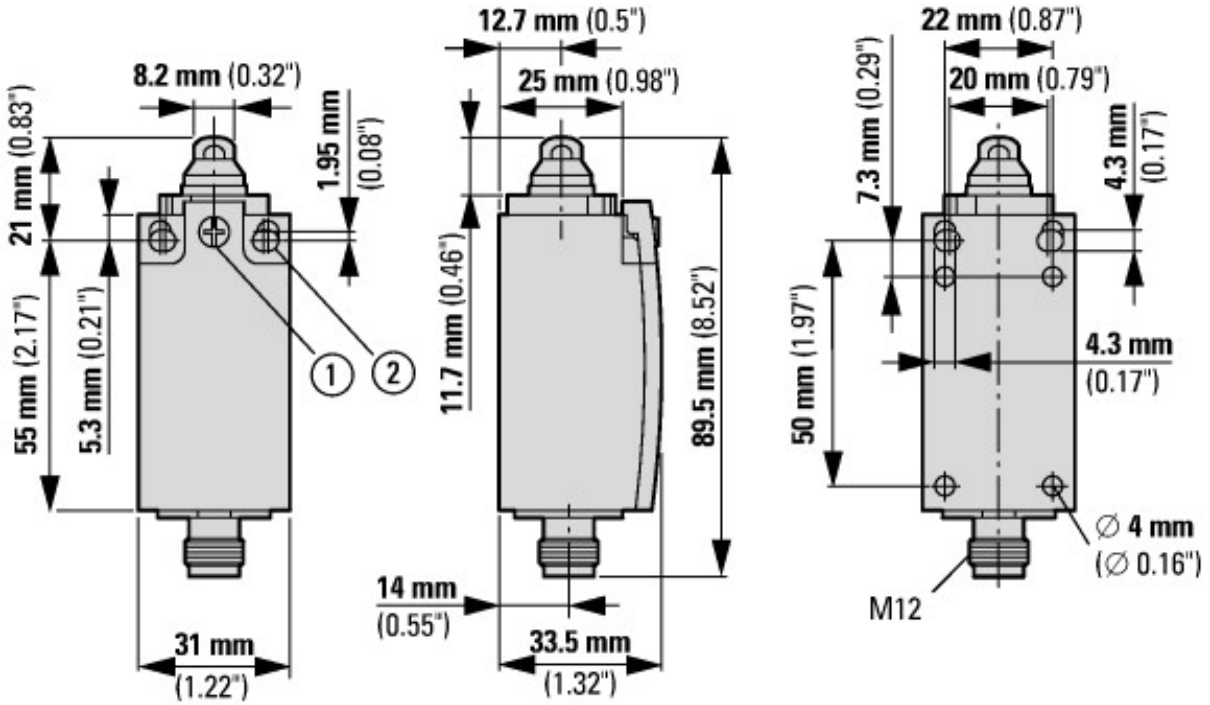
Sensors (EG000026) / End switch (EC000030)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss8.1-27-27-06-01 [AGZ382012])

Width sensor		mm	31
Diameter sensor		mm	0
Height of sensor		mm	86
Length of sensor		mm	33.5
Rated operation current Ie at AC-15, 24 V		A	6
Rated operation current Ie at AC-15, 125 V		A	6
Rated operation current Ie at AC-15, 230 V		A	6
Rated operation current Ie at DC-13, 24 V		A	3
Rated operation current Ie at DC-13, 125 V		A	0.6
Rated operation current Ie at DC-13, 230 V		A	0.3
Switching function			Quick-break switch
Output electronic			No
Forced opening			Yes
Number of safety auxiliary contacts			1
Number of contacts as normally closed contact			1
Number of contacts as normally open contact			1
Number of contacts as change-over contact			0
Type of interface			None

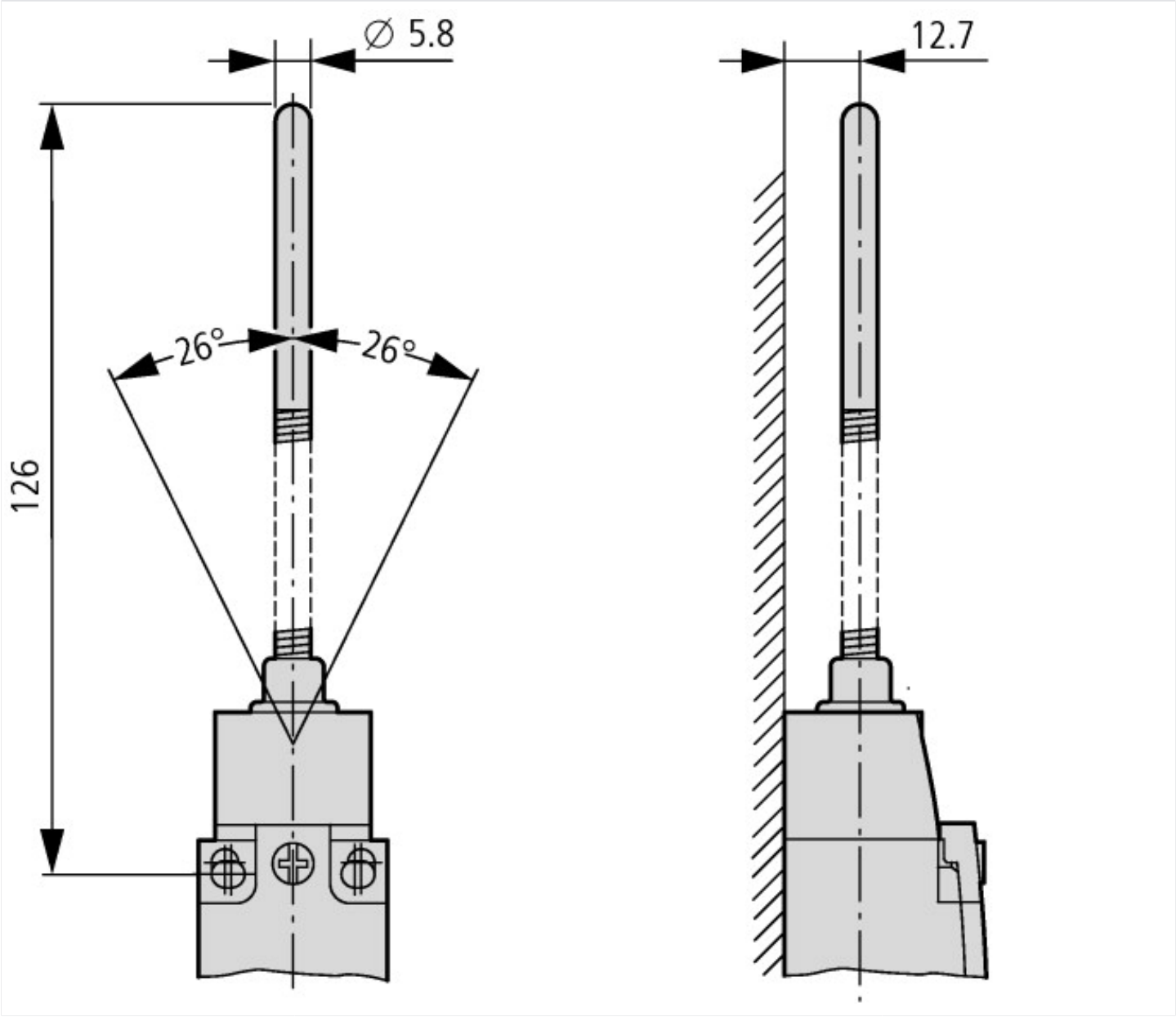
Type of interface for safety communication		None
Housing according to norm		-
Construction type housing		Cuboid
Material housing		Plastic
Coating housing		-
Type of control element		Spring-rod
Alignment of the control element		-
Type of electric connection		-
With status indication		No
Suitable for safety functions		Yes
Explosion safety category for gas		None
Explosion safety category for dust		None
Ambient temperature during operating	°C	-25 - 70
Degree of protection (IP)		IP65

Dimensions



① Tightening torque Cover screw: 0.8 Nm ±0.2 Nm

② Fixing screw 2 x M4 ≧ 30



Additional product information (links)

IL053001ZU LS-Titan position switch: basic device	
IL053001ZU LS-Titan position switch: basic device	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL053001ZU2013_08.pdf