

Position switch, 1N/O+1N/C, wide, IP65_x, roller lever

Powering Business Worldwide™

AT4/11-1/IA/R316 Part no. Article no. 026601 Catalog No.

Delivery program

Delivery program			
Basic function	Position switches Safety position switches		
Part group reference	AT4		
Product range	Rotary lever		
Degree of Protection	IP65		
Features	Complete unit		
Ambient temperature	°C -25 - +70		
Design	EN 50041 Form A		
Approval	totally insulated		
Contacts			
N/O = Normally open	1 N/0		
N/C = Normally closed	1 NC →		
Notes	= safety function, by positive opening to IEC/EN 60947-5-1		
Contact sequence	$0 - \frac{13}{14} = \frac{1}{22}$		
Contact travel = Contact closed = Contact open	13-14 21-22 0° 34° 44° 72° Zw = 50°		
Positive opening (ZW)	yes		
Colour			
Enclosure covers	Grey		
Enclosure covers			
Housing	Insulated material		
Connection type	Screw terminal		
Notes The operating head can be rotated at 90° intervals to adapt to the specified approach direction. For degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.			

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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		IP65
Terminal capacities	mm ²	

Rated impulse withstand voltage U _{imp} V AC 6000 Rated insulation voltage U _i V 900 Overvoltage category/pollution degree IU/3 IU/3 Rated operational current I _e AC AC-15 V IU/3 24 V I IU/3 220 V 230 V 240 V I _e AC 380 V 400 V 415 V I _e AC 24 V I _e AC 24 V I _e A I _e 380 V 400 V 415 V I _e A I _e 24 V I _e A I _e 110 V I _e A I _e 220 V I _e A I _e Note thericult rating to IEC/EN 60947-5-1 I _e A G/G I _e max. fuse Repetition accuracy I _e A G/G I _e Mechanical variables I _e A G/G I _e Contact temperature of roller head I _e I _e I _e Mechanical shock resistance				
Section Contacts Switching capacity	Solid		mm ²	
Rated impulse withstand voltage Ump V AC 6000 Bated insulation voltage U1 V AC 500 Overwithinge category/pollution degree III/3 III/3 Rated operational current Ie AC III/3 AC-15 III/4 III/4 III/4 220 V 230 V 240 V Ie AC 6 380 V 400 V 415 V Ie AC 1 10 C-13 III/4 III/4 III/4 III/4 24 V Ie AC 1 III/4 380 V 400 V 415 V Ie A 1 III/4 II			mm ²	
Rated insulation voltage Ui V 500 Overvoltage category/pollution degree III/3 Rated operational current Ie AC-15 24 V Ie A 220 V 230 V 240 V Ie A DC-13 B A 24 V Ie A 110 V Ie A 24 V Ie A 110 V Ie A 220 V Ie A Supply frequency IE A Short-circuit rating to IEC/EN 80947-5-1 IE max. 409 Repetition accuracy Imm 0.2 Mechanical variables ILtespan, mechanical Imm 0.2 Mechanical shock resistance (half-sinusoidal shock, 20 ms) X 10* 8 Standard-action contact Imm 0.2 100* Mechanical shock resistance (half-sinusoidal shock, 20 ms) Imm 0.2 100* Operation frequency Imm 0.2 100* Operation frequency Imm	Contacts/switching capacity			
Overvitage category/pollution degree INJ Rated operational current I ₀ A AC-15 V V 24 V I ₀ A 6 220 V 230 V 240 V I ₀ A 6 300 V 4015 V I ₀ A 4 DC-13 V V V V 24 V I ₀ A 1 V X V X V X V X V X V X <td>Rated impulse withstand voltage</td> <td>U_{imp}</td> <td>V AC</td> <td>6000</td>	Rated impulse withstand voltage	U_{imp}	V AC	6000
Rated operational current	Rated insulation voltage	Ui	V	500
AC-15 24 V 20 V 230 V 240 V 1e	Overvoltage category/pollution degree			III/3
24 \ 10	Rated operational current	le	Α	
220 V 230 V 240 V 10	AC-15			
1	24 V	I _e	Α	10
DC-13 24 V	220 V 230 V 240 V	I _e	Α	6
10	380 V 400 V 415 V	I _e	Α	4
110 V 220 V 1e A 0.5 Supply frequency Short-circuit rating to IEC/EN 60947-5-1 max. fuse Repetition accuracy Mechanical variables Lifespan, mechanical Contact temperature of roller head Contact temperature of roller head Contact temperature of roller head Standard-action contact Snap-action contact Operating frequency N 0 A Q G/QL Operating frequency Operating frequency Operating frequency Operating frequency N 0 A Q Operating frequency Operating frequency N 0 A Q Operating frequency N 0 A Q Operating frequency Operating frequency N 0 A Q Operating frequency N 0 A	DC-13			
220 V Supply frequency Short-circuit rating to IEC/EN 60947-5-1 max. fuse Repetition accuracy Mechanical variables Lifespan, mechanical Contact temperature of roller head Contact temperature of roller head Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Snap-action contact Operations frequency Operations/frequency Operations/freq	24 V	l _e	Α	10
Supply frequency Short-circuit rating to IEC/EN 60947-5-1 max. fuse Repetition accuracy Mechanical variables Lifespan, mechanical Contact temperature of roller head Contact temperature of roller head Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Snap-action contact Qperations/h Qperations/h Qperations/h Actuation Mechanical Actuation Mechanical Actuating force at beginning/end of stroke Hz max. 400 Age(A) Be Contact temperature of roller head Operation **C \$\frac{1}{2}\times 100 **C \$\frac{1}\times 100 **C \$\frac{1}{2}\times 100 **C \$\frac{1}{2}\times 100 **C \$\fra	110 V	l _e	Α	1
Short-circuit rating to IEC/EN 60947-5-1 max. fuse Repetition accuracy Mechanical variables Lifespan, mechanical Contact temperature of roller head Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Snap-action contact Operations Snap-action contact Operations Ope	220 V	I _e	Α	0.5
max. fuse Repetition accuracy Mechanical variables Lifespan, mechanical Contact temperature of roller head Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Snap-action contact Operations Snap-action contact Operations Mechanical Actuation Actuation Actuating force at beginning/end of stroke A g 6/gL Operations x 106 8 Confact temperature of roller head y 2 2 2 3 4 5 6 6 6 6 6 6 6 6 6 6 6 7 8 8 6 6 6 7 8 8 7 8 8 8 8 8 8 8 8 8	Supply frequency		Hz	max. 400
Repetition accuracy Mechanical variables Lifespan, mechanical Contact temperature of roller head Standard-action contact Standard-action contact Snap-action contact Operations/h Snap-action contact Operations/h Actuation Mechanical Actuation Mechanical Actuating force at beginning/end of stroke Mechanical Actuation N 8.0/20.0	Short-circuit rating to IEC/EN 60947-5-1			
Mechanical variables Lifespan, mechanical Contact temperature of roller head Solve the second sec	max. fuse		A gG/gL	6
Lifespan, mechanical Contact temperature of roller head Solution Standard-action contact Contact Standard-action contact Solution Standard-action contact Solution Standard-action contact Contact Standard-action contact Solution Standard-action c	Repetition accuracy		mm	0.02
Contact temperature of roller head CO Signal Standard action contact Standard	Mechanical variables			
Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Snap-action contact Operating frequency Operations/h Actuation Actuation Actuating force at beginning/end of stroke Actuation N 8.0/20.0	Lifespan, mechanical	Operations	x 10 ⁶	8
Standard-action contact Snap-action contact Snap-action contact Operating frequency Operations/h Actuation Mechanical Actuating force at beginning/end of stroke Standard-action contact g 5 2 2 Contaction N 8.0/20.0	Contact temperature of roller head		°C	≤ ₁₀₀
Snap-action contact Operating frequency Operations/h Actuation Mechanical Actuating force at beginning/end of stroke Actuation N 8.0/20.0	Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Operating frequency Operations/h Solution Actuation Mechanical Actuating force at beginning/end of stroke N 8.0/20.0	Standard-action contact		g	5
Actuation Mechanical Actuating force at beginning/end of stroke N 8.0/20.0	Snap-action contact		g	2
Actuation Mechanical Actuating force at beginning/end of stroke N 8.0/20.0	Operating frequency	Operations/h		≤ ₆₀₀₀
Actuating force at beginning/end of stroke N 8.0/20.0	Actuation			
	Mechanical			
Actuating torque of rotary drives Nm 0.3	Actuating force at beginning/end of stroke		N	8.0/20.0
	Actuating torque of rotary drives		Nm	0.3

Design verification as per IEC/EN 61439

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Technical data for design verification			
Operating ambient temperature min.	°C		-25
Operating ambient temperature max.	°C	2	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	56
Diameter sensor		mm	0
Height of sensor		mm	83
Length of sensor		mm	0
Rated operation current le at AC-15, 24 V		Α	6
Rated operation current le at AC-15, 125 V		Α	0
Rated operation current le at AC-15, 230 V		Α	6
Rated operation current le at DC-13, 24 V		Α	10
Rated operation current le at DC-13, 125 V		Α	1
Rated operation current le at DC-13, 230 V		Α	0.6
Switching function			Slow-action 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		Square roller lever
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