### DATASHEET - AT4/11-1/I/V



Position switch, 1N/0+1N/C, narrow,  $IP65_x$ , adjustable roller lever

Part no. AT4/11-1/I/V Catalog No. 009990 Eaton Catalog No. AT4/11-1/I/V



#### **Delivery program**

Delivery program	
Basic function	Position switches Safety position switches
Part group reference	AT4
Product range	Adjustable roller lever
Degree of Protection	IP65
Features	Complete unit
Ambient temperature	°C -25 - +70
Approval	totally insulated
Contacts	
N/O = Normally open	1 N/O
N/C = Normally closed	1 NC →
Notes	= safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence	13 L 21 0- 14 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

## 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

A 11		00	05 70
Ambient temperature		°C	-25 - +70
Mounting position			As required
Degree of Protection			IP65
Terminal capacities		$mm^2$	
Solid		mm <sup>2</sup>	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Flexible with ferrule		mm <sup>2</sup>	1 x (0.5 - 1.5) 2 x (0.5 - 1.5)
Contacts/switching capacity			
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Rated insulation voltage	Ui	V	500
Overvoltage category/pollution degree			III/3
Rated operational current	I <sub>e</sub>	Α	
AC-15			
24 V	I <sub>e</sub>	Α	10
220 V 230 V 240 V	I <sub>e</sub>	Α	6
380 V 400 V 415 V	I <sub>e</sub>	Α	4
DC-13			
24 V	I <sub>e</sub>	Α	10
110 V	I <sub>e</sub>	Α	1
220 V	I <sub>e</sub>	Α	0.5
Supply frequency		Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1			
max. fuse		A gG/gL	6
Repetition accuracy		mm	0.02
Rated conditional short-circuit current		kA	1
Mechanical variables			
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	8
Contact temperature of roller head		°C	≦ 100
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	5
Snap-action contact		g	2
Operating frequency	Operations/h		≦ 6000
Actuation			
Mechanical			
Actuating force at beginning/end of stroke		N	8.0/20.0
Actuating torque of rotary drives		Nm	0.3
Max. operating speed with DIN cam		m/s	1.4

Notes		for angle of actuation $\alpha$ = 30°, $L$ = 125 mm
Max. operating speed with DIN cam	m/s	1.4
Actuating torque of rotary drives	Nm	0.3
Actuating force at beginning/end of stroke	N	8.0/20.0
Mechanical		

# Design verification as per IEC/EN 61439

In	Α	6
$P_{\text{vid}}$	W	0.1
$P_{\text{vid}}$	W	0
$P_{vs}$	W	0
P <sub>diss</sub>	W	0
	°C	-25
	°C	70
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
	P <sub>vid</sub> P <sub>vid</sub> P <sub>vs</sub> P <sub>diss</sub>	P <sub>vid</sub> W P <sub>vid</sub> W P <sub>vs</sub> W P <sub>diss</sub> W °C °C

10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

### **Technical data ETIM 7.0**

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@ss10.0.1-27-27-06-01 [AGZ382015])	,		noon teelinology / 1 ostaon switch / 1 ostaon switch (1996 1)
Width sensor	ı	mm	40
Diameter sensor	ı	mm	0
Height of sensor	ı	mm	83
Length of sensor	1	mm	0
Rated operation current le at AC-15, 24 V		A	10
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	0.4
Switching function			Slow-action switch
Switching function latching			No
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
Construction type housing			Cuboid
Material housing			Plastic
Coating housing			Other
Type of control element			Adjustable rotary lever
Alignment of the control element			Other
Type of electric connection			Other
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
Degree of protection (NEMA)		Other

## Approvals

Product Standards	UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	12528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Specially designed for North America	No
Suitable for	Branch circuits
Max. Voltage Rating	600 V AC
Degree of Protection	UL: 1, 4X; CSA: 1, 3R, 4, 4X, 12, 13

## Additional product information (links)

11 052000127	(AWA1310-0544)	Docition cwitch
11002080122	(AVVA131U-U344)	Position Switch

IL05208012Z (AWA1310-0544) Position switch

ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL05208012Z2018\_06.pdf