

Part no. Article no.

Catalog No.

Position switch, 2 N/C, wide, IP65_x, rounded plunger, centre fixing



AT0-02-1-IA/ZS 021833 AT0-02-1-IA-ZS

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	
Solid		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Flexible with ferrule		mm ²	1 x (0.5 - 1.5) 2 x (0.5 - 1.5)
Contacts/switching capacity			
Rated impulse withstand voltage	U _{imp}	V AC	6000
Rated insulation voltage	Ui	V	500
Overvoltage category/pollution degree			111/3
Rated operational current	l _e	А	
AC-15			
24 V	l _e	А	10
220 V 230 V 240 V	le	А	6
380 V 400 V 415 V	le	А	4
DC-13			
24 V	l _e	А	10
110 V	le	A	1
220 V	l _e	А	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
Mechanical variables			
Lifespan, mechanical	Operations	x 10 ⁶	20
Notes			(If approached from the side: 1)
Contact temperature of roller head		°C	≦ ₁₀₀
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	25
Snap-action contact		g	2
Operating frequency	Operations/h		≦ ₆₀₀₀
Actuation			
Mechanical			
Actuating force at beginning/end of stroke		N	1.0/8.0
Actuating torque of rotary drives		Nm	0.2
Max. operating speed with DIN cam		m/s	1/0.5
Notes			for angle of actuation α = 0°/30°

Design verification as per IEC/EN 61439

Technical data for design verification	
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Heat dissipation per pole, current-dependent	P _{vid}	W	0.13
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
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 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])

[A02302012])		
Width sensor	mm	51
Diameter sensor	mm	0
Height of sensor	mm	51
Length of sensor	mm	0
Rated operation current le at AC-15, 24 V	А	10
Rated operation current le at AC-15, 125 V	А	0
Rated operation current le at AC-15, 230 V	А	6
Rated operation current le at DC-13, 24 V	А	10
Rated operation current le at DC-13, 125 V	А	1
Rated operation current le at DC-13, 230 V	А	0.5
Switching function		Slow-action switch
Output electronic		No
Forced opening		Yes
Number of safety auxiliary contacts		1
Number of contacts as normally closed contact		2
Number of contacts as normally open contact		0
Number of contacts as change-over contact		0

Type of interface for safety communication Image: Solution of the face for safety communication Image: Solution of the face for safety communication Image: Solution of the face for safety communication Image: Solution of the control element Image: Solution of the control element Image: Solution of the face for safety functions Image: Solution of the face for safety for dust. <			
Ausing according to norm Image: Construction type housing - Construction type housing Cuboid Cuboid Material housing Image: Cuboid Plastic Coating housing Image: Cuboid - Coating housing Image: Cuboid Plunger Coating housing Image: Cuboid - Type of control element Image: Cuboid - Alignment of the control element Image: Cuboid - Suitable for safety functions Image: Cuboid - Suitable for safety functions Image: Cuboid None Explosion safety category for dust Image: Cuboid None Ander the mereture during operating Cuboid Suitable Cuboid	Type of interface		None
Construction type housingColorClubidMaterial housingPlasticCoating housing-Coating housing-Type of control elementPlungerAlignment of the control element-Type of electric connection-Type of electric connection-With status indication-Suitable for safety functions-Explosion safety category for gas-Explosion safety category for dust-Ament enterner aturing operating°CConstruction-Construction-Construction-Suitable for safety category for dust-Constructions-Construction	Type of interface for safety communication		None
Material housing Plastic Coating housing - Explosion safety category for dust Image: Coating housing Alignment of the control element Image: Coating housing Nith status indication Image: Coating housing Suitable for safety functions Image: Coating housing Explosion safety category for dust Image: Coating housing And memory for dust Image: Coating housing houtong housing housing housing houtong housing	Housing according to norm		
Coating housing Image: Coating housing hou housing hou housing housing housing hou hou housing h	Construction type housing		Cuboid
Type of control element Plunger Alignment of the control element Image: Plunger Type of electric connection Image: Plunger Type of electric connection Image: Plunger With status indication Image: Plunger Suitable for safety functions Image: Plunger Explosion safety category for gas Image: Plunger Explosion safety category for dust Image: Plunger Ambient temperature during operating Image: Plunger	Material housing		Plastic
Alignment of the control element F Alignment of the control element Type of electric connection - - Nith status indication Mo No Suitable for safety functions Mo No Explosion safety category for gas Mo None Explosion safety category for dust Mo None Ambient temperature during operating °C 25 - 70	Coating housing		
Type of electric connection Image: Status indication Image: Statu	Type of control element		Plunger
Nith status indication No Suitable for safety functions Mo Explosion safety category for gas Mo Explosion safety category for dust Mo Ambient temperature during operating C	Alignment of the control element		
Suitable for safety functions Yes Explosion safety category for gas None Explosion safety category for dust None Ambient temperature during operating °C >25 - 70	Type of electric connection		
Explosion safety category for gas Mone Explosion safety category for dust Mone Ambient temperature during operating °C -25 - 70	With status indication		No
Explosion safety category for dust None Ambient temperature during operating °C -25 - 70	Suitable for safety functions		Yes
Ambient temperature during operating °C -25 - 70	Explosion safety category for gas		None
	Explosion safety category for dust		None
Degree of protection (IP)	Ambient temperature during operating	°C	-25 - 70
	Degree of protection (IP)		IP65