DATASHEET - ATR-11-1-IA



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

Part no. ATR-11-1-IA Catalog No. 034868 Alternate Catalog ATR-11-1-IA



Delivery program

Safety position switches AIR AIR AIR AIR AIR AIR AIR AI	Delivery program		
roduct range segree of Protection seatures P85 Basic device, expandable	Basic function		
egree of Protection Peterres Basic device, expandable -25 - +70 Ontacts N/O = Normally open N/C = Normally closed Notes Notes Ontact sequence I N/O Notes I N/O I N	Part group reference		ATR
Basic device, expandable mbient temperature ontacts N/O = Normally open N/C = Normally closed Notes Notes Notes Safety function, by positive opening to IEC/EN 60947-5-1 113	Product range		Rounded plunger
mbient temperature ontacts N/Q = Normally open N/C = Normally closed Notes Notes Notes ontact sequence ontact trave = Contact closed = Contact open socious Enclosure covers Enclosure covers Enclosure covers ontact trave = Contact closed = Contact open ontact trave = Contact closed =	Degree of Protection		IP65
N/C = Normally open N/C = Normally closed Notes Notes 1 N/O	eatures		Basic device, expandable
N/O = Normally open N/C = Normally closed Notes Notes Description of the travel = Contact closed = Contact open Solitiour Covers Enclosure covers Enclosure covers Enclosure covers I N/O 1 N/C 1 13 1 21 1 14 2 1 2 2 2 2 4 4.8 6 mm 2 2 2 4 4.8 6 mm 2 3 4 4.8 6 mm 2 4 4.7 mm 2 5 6 mm 2 6 my 4 m	Ambient temperature	°C	-25 - +70
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Notes Description of the contact sequence Description of the contact closed = Contact open Description of the contact closed = Contact closed = Contact open Description of the contact closed = Contact closed = Contact open Description of the contact closed = Con	N/O = Normally open		1 N/0
entact sequence 13 21	N/C = Normally closed		1 NC →
ontact travel = Contact closed = Contact open 13-14 21-22 0 2.9 4.8 6 mm Zw = 4.2 mm solitour Enclosure covers Enclosure covers Enclosure covers	Notes		e safety function, by positive opening to IEC/EN 60947-5-1
21-22 0 2.9 4.8 6 mm 2w = 4.2 mm sitive opening (ZW) poliour Enclosure covers Enclosure covers Final Surface Covers Final Surf	Contact sequence		<u></u>
Enclosure covers Enclosure covers Enclosure covers	contact travel = Contact closed = Contact open		21-22 0 2.9 4.8 6 mm
Enclosure covers Enclosure covers Grey	Positive opening (ZW)		yes
Enclosure covers I a l a l a l a l a l a l a l a l a l a	Colour		
	Enclosure covers		Grey
ousing Insulated material	Enclosure covers		
	lousing		Insulated material
onnection type Screw terminal	Connection type		Screw terminal
otes For degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.			

Technical data

General

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)
Repetition accuracy		mm	0.02
Contacts/switching capacity			
Rated impulse withstand voltage	U_{imp}	V AC	6000

ed insulation voltage	U _i	V	500
	1		III/3
rvoltage category/pollution degree			111/3
ed operational current	l _e	Α	
AC-15			
24 V	l _e	Α	10
220 V 230 V 240 V	l _e	Α	6
380 V 400 V 415 V	l _e	Α	4
DC-13			
24 V	l _e	Α	10
110 V	l _e	Α	1
220 V	l _e	Α	0.5
ply frequency		Hz	max. 400
rt-circuit rating to IEC/EN 60947-5-1			
nax. fuse		A gG/gL	6
chanical variables			
span, mechanical (Operations	x 10 ⁶	20
es			(If approached from the side: 6)
tact temperature of roller head		°C	≦ 100
chanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	25
Snap-action contact		g	2
rating frequency	Operations/h		≦ 6000

N

m/s

1.0/8.0

for angle of actuation α = 0°/30°

1/1

Design verification as per IEC/EN 61439

Actuating force at beginning/end of stroke

Max. operating speed with DIN cam

Mechanical

Notes

echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
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
EC/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 7.0

Toomilour data ETIII 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])				
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		Α	0	
Rated operation current le at AC-15, 125 V		Α	0	
Rated operation current le at AC-15, 230 V		Α	0	
Rated operation current le at DC-13, 24 V		Α	0	
Rated operation current le at DC-13, 125 V		Α	0	
Rated operation current le at DC-13, 230 V		Α	0	
Switching function			Slow-action switch	
Switching function latching			No	
Output electronic			No	
Forced opening			Yes	
Number of safety auxiliary contacts			0	
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			Plunger	
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	

Dimensions

