

## PRESSURE SWITCH type B174 (protecting pumps before working "on dry")



- switch of critical states
- protecting unit (protecting pumps before working "on dry" and decrease of water pressure)
- two-term pressure switch, strong compacted housing, max. working pressure to 1 MPa, might be used for mediums like gas and liquid
- optional working position, high long-time stability, protection degree of housing IP54 acc. to PN-EN 60529:2002
- high reliability - they are made according to EN ISO 9001:2000

PRESSURE SWITCH TYPE B174 WAS DESIGNED FOR DISCONNECTED ELECTRIC CIRCUITS AT BRAKE OF SETTING AT MEASURED PRESSURE VALUE. IT IS USED IN AUTOMATION SYSTEMS AND BUILDING OF MACHINES AND EQUIPMENT (E.G. IN PUMPS PROTECTING SYSTEMS BEFORE WORKING "ON DRY"). METAL ELASTIC BELLOWS IS THE MEASURING ELEMENT, WHICH MAKES SWITCHING CONTACTS OF MINIATURE SWITCH UNDER THE INFLUENCE OF GROW UP OF MEASURING PRESSURE.

### TECHNICAL DATA

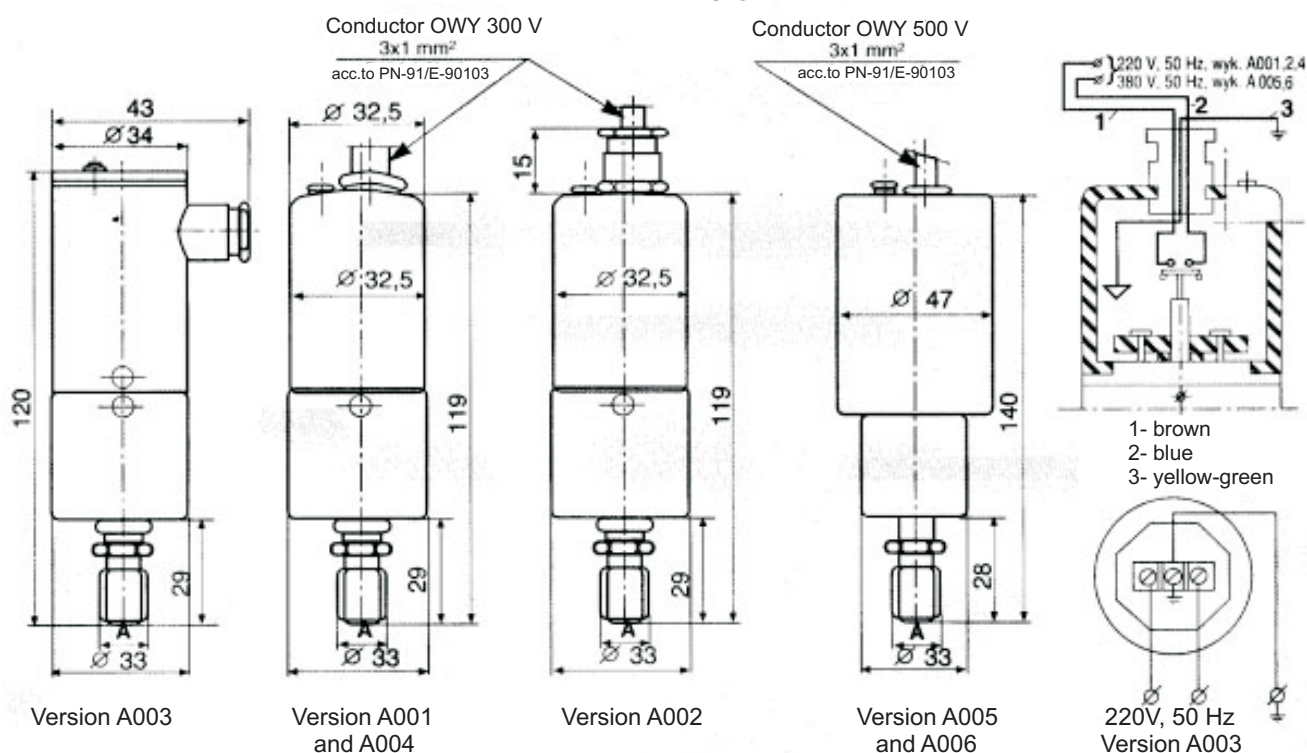
- switching of pressure:	
for versions B-174-A001 ... A004	10 - 30 kPa
for versions B-174-A005 and A006	32-40 kPa
- setting accuracy of switching of pressure:	
for versions B-174-A001 ... A004	0,8 kPa
for versions B-174-A005 and A006	1 kPa
- hysteresis zone (un-setting):	
for versions B-174-A001 ... A004	8-14 kPa
for versions B-174-A005 and A006	8-28 kPa
- max working pressure	1,0 MPa
- working position	optional
- load contacts capacity:	
for versions B-174-A001 ... A004	230VAC /2,5A
for versions B-174-A005 and A006	380VAC /6A
- acceptable vibrations	10...60 Hz / amplitude <0,35 mm 60...500Hz, hurrying 5g (acc. to PN-EN60654-3:2000;class VH6 IP54 (acc. to PN-EN 60529:2002)
- protection degree of housing	
- additional error at ambient temperature changes (at max working pressure):	
for versions B-174-A001 ... A004	0,5 kPa /10°C
for versions B-174-A005 and A006	0,8 kPa /10°C

**TECHNICAL DATA (continuation)**

- additional error at vibrations in range 10...60Hz, amplitude <0,35mm 60...500Hz, hurrying 5g
  - for vertical position: for versions B-174-A001 ... A004 1,6 kPa/10°C
  - for versions B-174-A005 and A006 2,5 kPa/10°C
  - for horizontal position: for versions B-174-A001 ... A004 1,0 kPa/10°C
  - for versions B-174-A005 and A006 2,0 kPa/10°C
- relative humidity surroundings 0...95%
- influence of changing position (deviation at vertical) 0,4 kPa/90°
- ambient temperature -25°C...+70°C
- temperature of measuring medium -25°C...+120°C
- mass:
  - for versions B-174-A001 ... A004 0,3 kg
  - for versions B-174-A005 and A006 0,5 kg

**IMPORTANT:**

Measuring medium gas or liquid, couldn't in chemical reaction on copper alloy

**DIMENSION****TABLE VERSIONS**

Version	Conductor at length 600 mm	Connector's thread (dimension A)	Cable bush of conductor	Electric gland from above	Electric gland from the side
B174-A001	+	G 1/4"	+	-	-
B174-A002	+		-	+	-
B174-A003	-		-	-	+
B174-A004	+	R 1/4"	+	-	-
B174-A005	+		+	-	-
B174-A006	+	R 1/8"	+	-	-

**ORDERING METHOD**

Name of switch, type and special wishes have to be determined in order.

**Example of ordering:**

Pressure switch with conductors at length 600 mm, with connector for conduits which conclude input pressure G 1/4" inch and with electric gland from above has denotation:  
Pressure switch type B174 - A002

The right of introducing design changes in the products, without deteriorating of its operation parameters, is reserved.