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Temperature Actuated Pneumatic Switch Catalog Page

Description

A40 Temperature Actuated Pneumatic Switches control integral pneumatic switches when the sensed temperature reaches the control set point. The A40 switches come in a variety of styles defined in Specifications, below.

Features

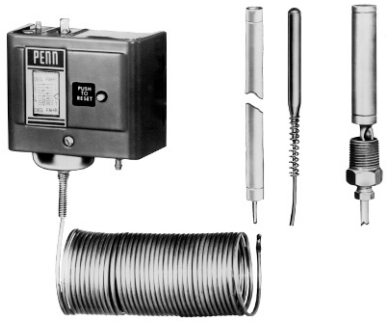
- Available in a variety of styles.
- Provided with either auto recycle or manual reset capability.
- A barb fitting permits “push-on” 1/4 in. tubing connection
- Controls have a “sight-set” calibrated scale which shows the setpoint. Adjustments can be made without removing the control cover.
- Duct mounting flange available separately when required. Request Part No. FLG10A-601R.

Repair information

Unit replacement only.

⚠ WARNING

This product is made of a copper alloy, which contains lead. The product is therefore not to be used on drinking water.



Specifications

A40 Temperature Actuated Pneumatic Switch		
Type Number	**A40EA**	Opens on Temperature Drop, Auto Reset
	A40FA	Opens on Temperature Drop, Manual Reset
	A40GA	Opens on Temperature Rise, Auto Reset
	A40HA	Opens on Temperature Rise, Manual Reset
Adjustment		Screwdriver Slot
Finish		Gray Baked Enamel
Material	**Case**	0.062” (1.6 mm) Cold Rolled Steel
	Cover	0.028” (0.7 mm) Cold Rolled Steel
Pneumatic Switch		Normally Closed, .022” (0.66 mm) Diameter Bleed Port
Restrictor Size		0.007” (0.18 mm)
Shipping Weights	**Individual Pack**	2.4 lb (1 kg)
	Overpack of 20 Units	49 lb (22 kg)
Temperature Limits[1]	**Low Temperature Controls**	Minimum is Lowest Set Point Temperature
		Maximum at Case is 140°F (60°C)
	High Temperature Controls	Minimum is -40°F (-40°C)
		Maximum at Case is 140°F (60°C)
Tubing Connector		Barbed Fitting for 1/4” O.D. Plastic Tubing
Mounting		Holes in Back of Case of With Optional Part Number 271-350 Mounting Bracket

1. Maximum bulb temperature varies with element style, bulb size and range. See Selection Chart.

Selection chart

Code Number	Item						
	Pneumatic Switch Opens On	Reset	Range F°	Diff F°	Element Style & Length	Bulb Size	Maximum Bulb Temperature
A40EA-1C[1]	Drop	Auto	15 to 55°F (-9.4 to 12.8°C)[2]	5	9	1/8 in. x 20 in.	400°F (204.4°C)
A40EA-3C[1]	Drop	Auto	35 to 80°F (1.7 to 26.7°C)[2]	5	1, 6 ft	3/8 in. x 3 in. w/Spring	130°F (54.4°C)
A40EA-4C	Drop	Auto	50 to 90°F (10 to 32.2°C)	4	4, 6 ft	11/16 in. x 6-3/4 in.	250°F (121.1°C)
A40FA-1C[1]	Drop	Manual	15 to 55°F (-9.4 to 12.8°C)[2]	5[3]	9	1/8 in. x 20 in.	400°F (204.4°C)
A40GA-2C	Rise	Auto	50 to 90°F (10 to 32.2°C)	5	4, 6 ft	11/16 in. x 6-3/4 in.	250°F (121.1°C)
A40HA-1C	Rise	Manual	140 to 220°F (60 to 104.4°C)	10[4]	4, 6 ft	11/16 in. x 3-1/4 in.	250°F (121.1°C)
A40HA-2C[5]	Rise	Manual	100 to 170°F (37.8 to 76.7°C)	10[4]	1, 6 ft	3/8 in. x 10 in.	250°F (121.1°C)

1. With low cutout stop set at 55°F (12.8°C) on A40EA-3, 35°F (1.67°C) on A40EA-1C.
2. Application Note: On low cutout applications, control without a cross ambient bulb must have the control case and connecting capillary located in a higher temperature than the bulb.
3. On low cutout manual reset models, the temperature must increase the amount of the differential before pneumatic switch can be closed.
4. Temperature must drop 10°F (-12.2°C) before pneumatic switch can be re-closed on high cutout models.
5. Includes closed tank connector FTG13A-600R.

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