DCA/A

TEMPERATURE ALARM SWITCHES

- **Fast Accurate Temperature Sensing**
- **User Defined Fixed Setting**
- **Broad Choice of Mounting Threads Available**
- **IP65 Ingress Protection as Standard**
- **Withstands Acceleration to 8G**
- **Rugged Construction for Tough Applications**
- **Pressure switch version available**

Application

DCA Temperature switches are ideally suited for use on all types of engines, pumps, compressors, gearboxes, industrial power plant and other applications where a rugged reliable control is required.

Physical Description

The DCA/A consists of a single compact non-adjustable unit based on a 32 A/F hex zinc plated and passivated steel body. This enables the control to be fitted directly into the application.

The DCA/A provides fast, accurate temperature response through a brass phial that protrudes into the application.

Electrical connections are configured by attaching standard 6.35 mm Faston terminals. Upon installation, normally open/closed or change over may be selected. Special variants with an internal earth (earth return) and an improved IP68 rating can be specified upon order. A rubber Gator is also available as an optional extra.

Operation

Should a hazardous condition arise, the DCA/A can be arranged to operate an alarm, initiate a shutdown or cut in a cooling fan at a pre-determined operating temperature, preventing damage to your valuable plant machinery.

Installation Considerations

Check there is enough clearance around the flats of the body and that the phial extends to the application by 31mm from the base of the Hexagon (see outline details).

The DCA/A automatically resets once the application has cooled; the differential varies according to the temperature set point (nominal 9°C).

Technical Specification

Standard Features

Operating Range	20 – 140°C
Differential	9°C Nominal
Tolerance	+/- 3.0°C
Max Over temperature	25°C Above Set point
Max External Phial Pressure	12 bar
Electrical Rating	5A 24V d.c. Resistive
	2A 24V d.c. Inductive
Switch	SPDT
	3 x 6.35 Faston Tabs
Max Body Temperature	120°C
Acceleration	Up to 8G
IP Rating	IP65
Max Tightening Torque	60Nm
Mass (Approx.)	140g

Optional Features

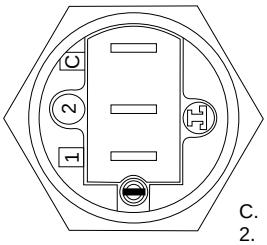
Internal Earth (Earth Return)

IP68 Variants with M4 Screw terminals

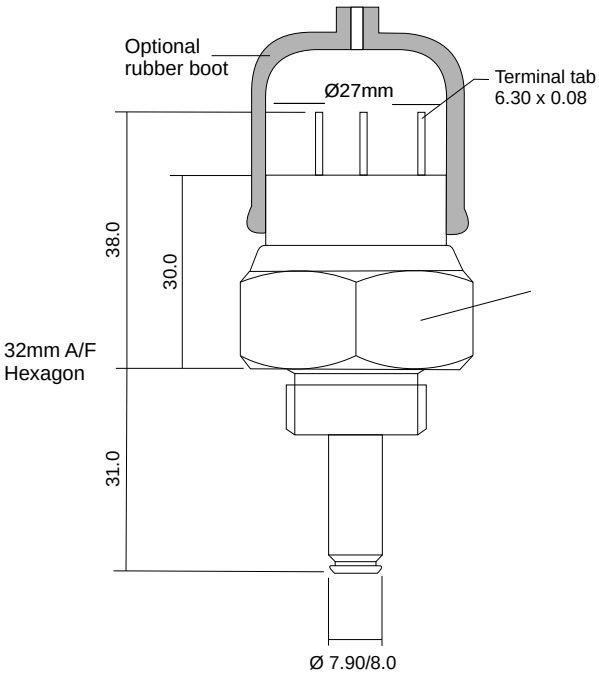
Rubber Boot and Flying Leads DCA/PA/54/3

Outline Details

Terminal positions



C. Common Terminal
2. Break on Rise
1. Make on Rise



Ordering Information

Thread	
1/4 BSPF	C
3/8 BSPF	B
1/2 BSPF	A
1/4 BSPT	S
3/8 NPTF	E
1/2 NPTF	D
M14 x 1.5	J
M16 x 1.5	U
M18 x 1.5	L
M22 x 1.5	V
5/8 x 18 UNF	N
3/4 x 16 UNF	K

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Temp Set Point °C

	Special Features
B	Common Earth Return
C	? 1 Terminal on Switch Removed
J	Common Terminal at 135°
K	? 2 Terminal on Switch Removed
L	Phial Extension Piece Added (see table)
N	Sealed Unit to IP68
V	Electrical Connections by M4 Screws (x3)
X	Setting Screw Unsealed Set as Specified
Y	Electrical Connections by 6.25mm Male Spade Terminals
2	Set on falling

Phial Extension Table

Phial Ref.	Phial Length (mm)
L	50.6
L1	58

As measured from DCA mounting face

08/08

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