

Convir DL Series Non-Contact Temperature Switch

- ◆ Temperature Range up to 1500°C
- ◆ Relay Switch Output
- ◆ 1 ms Response Time
- ◆ Narrow 66:1 Field Of View
- ◆ LED Pilot Light

The DL series is a range of high temperature fast response temperature switches. They are designed for use in the detection of hot metal parts, or as part of a counting or positioning process.

These switches offer temperature ranges from 400 °C to 1500 °C, with an ultra fast response time of just 1 ms and a transistor switch output of either 20 V DC or 30 mA.

The switching temperature of the DL series can be adjusted using a potentiometer at the rear of the instrument to suit individual requirements.

A narrow 66:1 field of view is provided as standard, with an LED pilot light to ensure accurate alignment with the process to be monitored.



GENERAL SPECIFICATIONS

MODEL	DL-14	DL-15
Temperature Range	400°C to 1400°C	700°C to 1500°C
Spectral Range	0.85 to 1.8µm	0.85 to 1.05µm
Accuracy	0.75% of measured value	
Repeatability	0.3% of measured value	
Response Time t_{90}	1 ms	
Emissivity	1.00	
Field Of View	66:1	
Output	Transistor switch (output 20 V or 30 mA shorted to ground)	
Power Supply	24 VDC ±15%, 50mA	

MECHANICAL

Construction	Stainless Steel
Dimensions	40 mm diameter x 113 mm long
Mounting Thread	M40 x 1.5 mm pitch

ENVIRONMENTAL

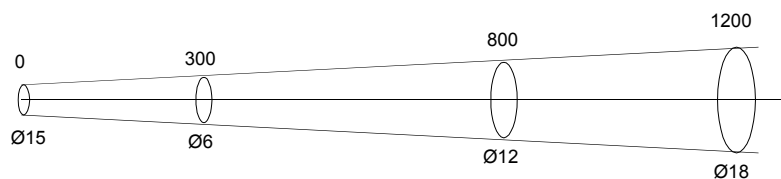
Environmental Rating	IP65
Ambient Temperature	0 to 50°C

Calex Electronics Limited

PO Box 2, Leighton Buzzard
Bedfordshire, England LU7 4AZ
Tel: +44(0) 1525 373178/853800
Fax: +44 (0) 1525 851319
Lo-call Tel: 0845 3108053
E-mail: info@calex.co.uk
Online: <http://www.calex.co.uk>

DIAMETER OF TARGET SPOT MEASURED VERSUS DISTANCE FROM SENSING HEAD

Distance: Sensor to Object (mm)



Spot Diameter (mm)