



### Features

- Temperature measuring ranges from -20°C to \*(100°C, 200°C, 300°C)
- Spectral range: 8...14μm
- Operating Voltage: DC 20...30VDC
- Output of standard 4 to 20mA DC
- Field of View(FOV): \*\*about 7.16°
- Fixed emissivity 0.97 for measuring non-reflective non-metals,
- \*\*\*Accuracy ±2% of reading or ±2°C, whichever is greater @25°C
- Maximum load resistance 300Ω at Power Supply 24V
- IR refresh rate: 10Hz
- operating temperature: -20°C to 70°C

\* See ordering guide.

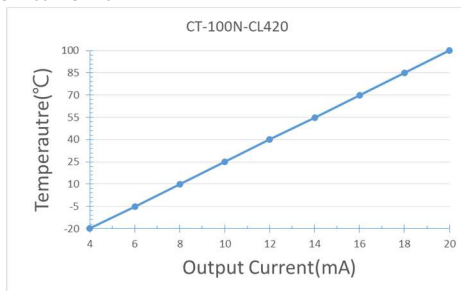
\*\* : 7.16° (spot diameter: 0.125xdistance(mm)+6.5mm)



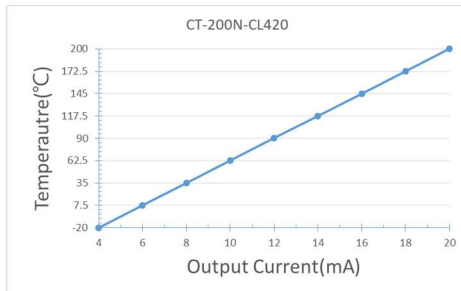
\*\*\*: Accuracy is only effective if the object is fully covered by the sensor's FOV and applicable to stable temperature conditions.

### Output Current vs Temperature

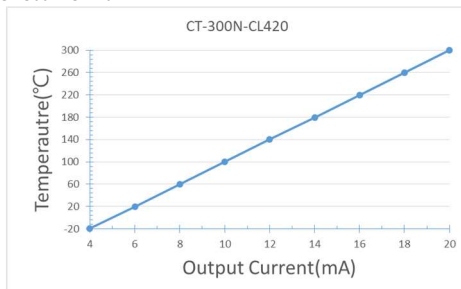
• CT-100N-CL420



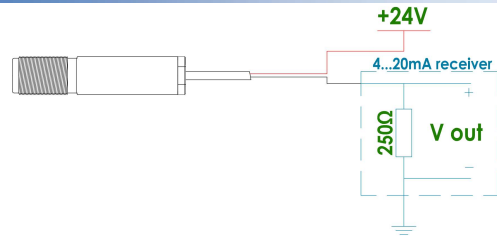
• CT-200N-CL420



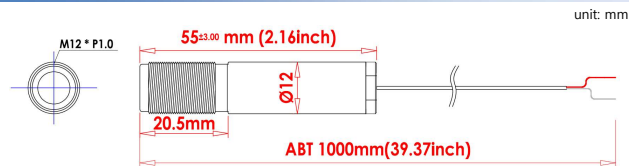
• CT-300N-CL420



### Connections



### Dimensions / Pins and Wiring colors



Dimensions: Ø12 x 55mm(long)

Thread Mounting: M12 x 1mm pitch

Cable length: about 1m (39.37 inch), Weight with cable: 36g

No.	Wire Color	Description	AWG
1	K (red)	Input DC +24V	24
2	L (white or black)	I out	24

### Ordering Guide

CT - □N - CL420

Temp. code	Measurement range	FOV (field of view)
100	-20 ... 100°C	7.16°
200	-20 ... 200°C	7.16°
300	-20 ... 300°C	7.16°

### Accessories

	Mounting nut (included)	2pcs
	Protective cap (Remove when using)	1pc

### Additional information

Manufacturer: DIWELL Electronics Co., Ltd. (South Korea)

Technical support: <mailto:expob2@diwell.com>, <mailto:dsjeong@diwell.com>

### Revision history

Version	Date(Y,M,D)	Description
1.0.0	2023.11.20.	First version is released
1.0.1	2024.1.12	CT-300N-CL420 FOV changed(7.16°)