

# KELLER

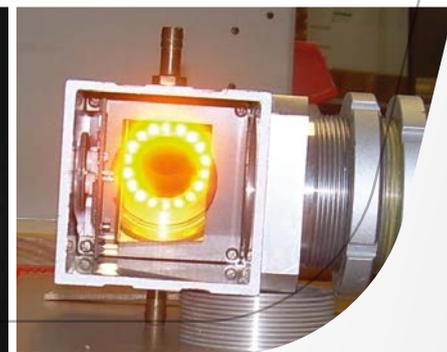
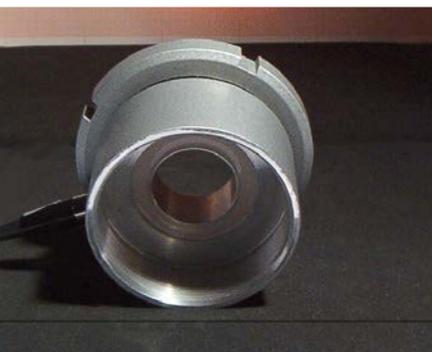
*infrared  
temperature  
solutions*

## ITS



### NO 1

in terms of  
ACCURACY  
RELIABILITY  
INNOVATION



## Accessories Illumination ring PZ 10/P

to illuminate dark measuring points  
or enclosed furnaces

# Accessories Illumination ring PZ 10/P

## Special features

- 18 LEDs arranged in a circle provide high luminosity
- Easy to integrate in assembly combinations
- Shines directly into the field of vision of the pyrometer
- Very low power consumption

## How it works

Pyrometers are often installed to measure the temperature of an enclosed furnace or unlit measuring points. It is nearly impossible to align and check the measurement spot as long as the furnace chamber or the target is not red hot.

As the furnace has no other sight opening it is often impossible or extremely complicated to illuminate the target with an external light source.

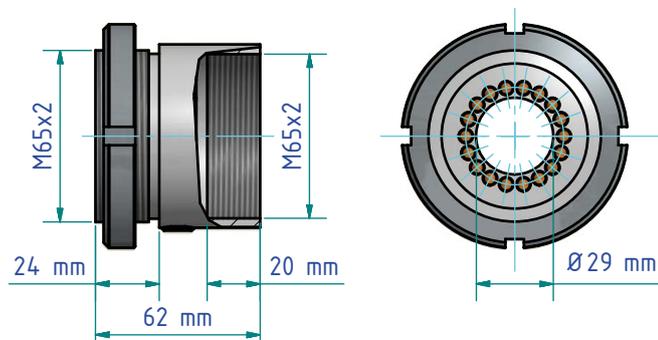
The illumination ring is simply screwed into the mounting assembly and its LEDs shine exactly in the direction of vision of the pyrometer. Thanks to the 18 circular LEDs and the focused light beam, the field of vision and the target spot of the pyrometer are perfectly illuminated.

The target marker is permanently and clearly visible in the sighting path or, with devices with integrated video camera, on the monitor in the control room.

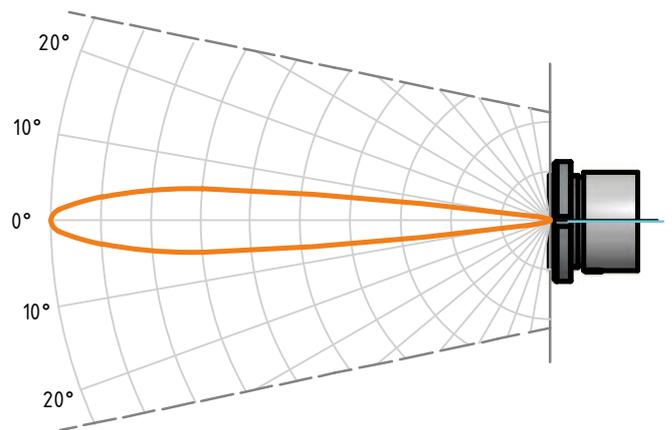
Despite the high luminosity, the power consumption of modern LEDs is only 60 mA and therefore extremely energy-efficient and absolutely acceptable even during continuous operation. Optionally, the illumination ring can also be switched on to facilitate the alignment of the pyrometer.

It can be used with all types of the pyrometer series CellaTemp PA and CellaTemp PZ.

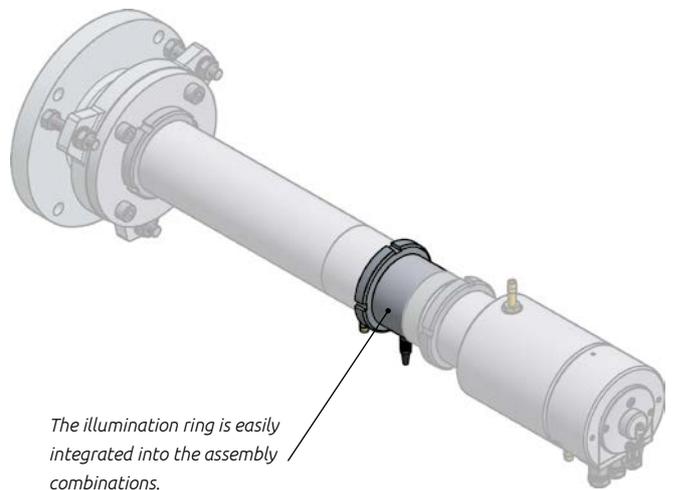
## Dimensions



## Beam angle diagram



## Application example



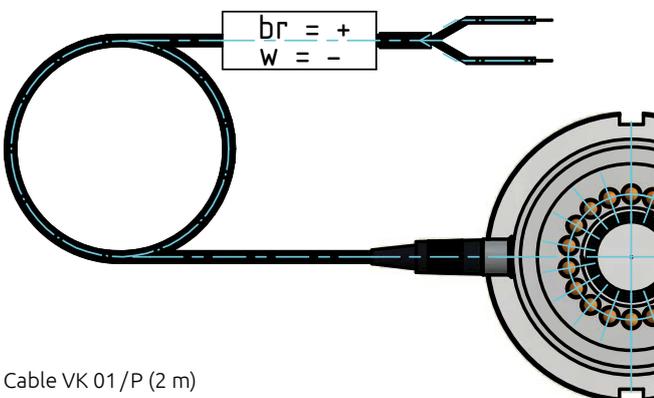


Video image obtained by the pyrometer CellaTemp PA with video camera through a sighting tube inside a dark furnace

## Technical data

<b>Power supply</b>	<b>Connection</b>
• 24 V CD / 60 mA	• Connector with locking, 3-pin
<b>Beam angle</b>	<b>Light wavelength</b>
• 8°	• 592 nm
<b>Visibility</b>	<b>Luminous flux</b>
• up to 5 m	• 8.8 lm (at $T_a = 25\text{ °C}$ and 24 VDC)
<b>Ambient temperature</b>	<b>Weight</b>
• 0 - 70 °C	• 0.44 kg
<b>Housing</b>	
• Aluminium	

## Accessories



Cable VK 01/P (2 m)

Since 1967, the Division Infrared Thermometer Solutions (ITS) of KELLER HCW GmbH develops and manufactures precision instruments and systems solutions for non-contact temperature measurements. Thanks to the continuous development of its range, KELLER ITS now is one of the leading providers for infrared thermometers and pyrometers worldwide.

With its very large product range of more than 250 models and systems KELLER ITS offers solutions for all standard applications and a variety of special measuring tasks.

Following the KELLER philosophy, the key focus in the development and production of the devices is set to the high measuring accuracy and reliability. Therefore, KELLER grants a warranty of 5 years on its products.

A global network of distributors and service points ensures competent and personal consultation on site.



## Applications

Our infrared thermometers and pyrometers are used in different industrial sectors:

- Asphalt and concrete mixing
- Crystal growing
- Coke oven
- Wires, tubes and rods
- Filaments / Metal bands
- Runner
- Incineration plant
- Rolling mill
- Blast furnace / stove dome
- Power plant
- Continuous casting
- Rotary kiln
- Sinter plant
- Glass production
- Induction heating

# KELLER

Creating Solutions

infrared  
temperature  
solutions

## ITS



- Headquarters
- Sales and Service Center
- Sales abroad



 **IO-Link**

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