

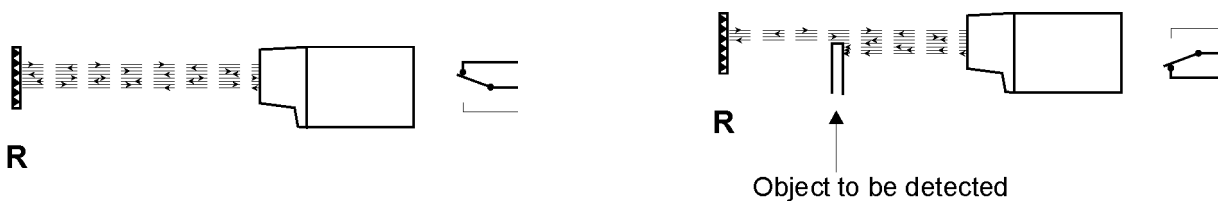
Reflectors

R



Improved distance on R110HT• (Nov. 2017)

The **Reflector R** reflects a luminous ray back towards the source which emitted it. It thus allows the creation of a reflecting optical barrier with **V3** or **V5** optical barriers.

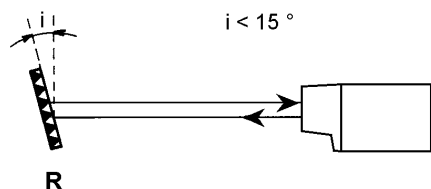


DELTA offers a wide range of reflectors to meet the different application requirements:

- Ambient temperature as high as 400 °C / 750 °F with water cooling and 250 °C / 480 °F without water cooling.
- Designed for harsh environments.
- Air-purging to keep dust clear from the reflectors.

Principle

A prism reflector reflects light back along the same axis as the emitting light, independent of the angle of emission. The angle of emission must not, however, exceed 15°.



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Ambient temperature

The maximum allowable temperature depends on the type of prism. The attachment of a water cooled base allows for use in higher ambient temperatures.

Warning : A plastic multi-prism reflector may be deformed by intense infrared radiation, even at low ambient temperatures. It is therefore advisable not to place a plastic reflector in close proximity to a strong IR source (e.g. hot product, furnace).

Model	R110, R110 A	R110HT, R110HTA R110HTF, R110HTAF	R430 HTA R430 HTAF
Type	Plastic multi-prism	Several small glass prisms	Single glass prism
Max ambient temperature (°C/°F)	40 °C / 105 °F	250 °C / 480 °F	250 °C / 480 °F
Max ambient temperature (°C/°F) with water cooling (F models)	-	400 °C / 750 °F *	400 °C / 750 °F *

* with water cooling (industrial water at 25 °C max., 1 to 2 bars, flow-rate 2 to 4 l/min.).



Mechanical construction

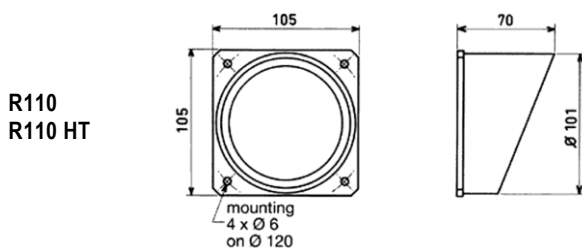
The reflectors R are mounted on a metal base with either:

- a visor and protective window (R110, R110 HT, R110 HTF)
- a protective hood with air purging to avoid dust deposit or steam interference (R110 A, R110 HTA, R110 HTAF, R430 HTA, R430 HTAF).

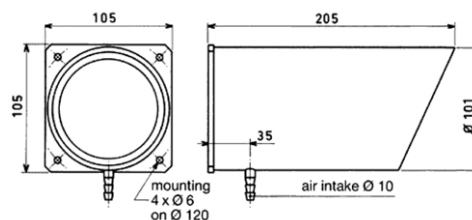
Model	R110	R110 A	R110 HT	R110 HTA	R110 HTF	R110 HTAF	R430 HTA	R430 HTAF
Max. ambient temperature	40 °C / 105 °F		250 °C / 480 °F		400 °C / 750 °F *		250 °C / 480 °F	400 °C / 750 °F *
Distance V3 - R	0 - 15 m		0 - 30 m (New 2017: improved distance)				0 - 30 m	
Distance V5 - R	1 - 30 m		1 - 50 m (New 2017: improved distance)				10 - 50 m	
Air purging	-	✓	-	✓	-	✓	-	✓
Water cooling	-	-	-	-	✓	-	-	✓
Weight	0.8 kg	2 kg	1 kg	2.1 kg	2 kg	3.1 kg	2.8 kg	3.8 kg

* with water cooling (industrial water at 25 °C max., 1 to 2 bars, flow-rate 2 to 4 l/min.).

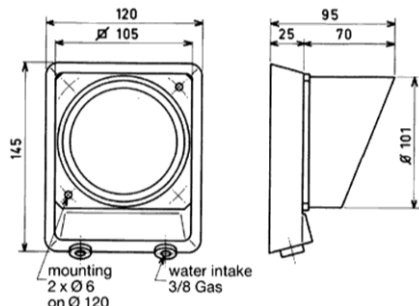
Dimensions



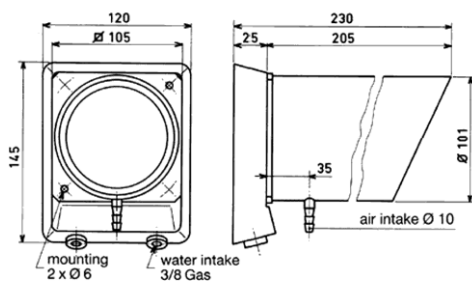
R110 A
R110 HTA
R430 HTA



R110 HTF



R110 HTAF
R430 HTAF



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Subject to change without prior notice

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