



Cooling box for O1D Series distance sensor



Cooling and protection box for O1D series distance sensors

- Use for ambient temperatures up to 180 °C (356 °F)
- Robust metal housing with integrated cooling circuit
- Water or air cooling possible
- High temperature glass window
- Standardized 3/8" tube connections



Distance measurement in high temperature applications

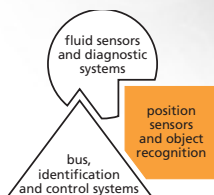
ifm's cooling box protects the O1D distance sensors from overheating in environments with ambient temperatures up to 180 °C (356 °F). Using the cooling box, the distance sensor O1D with PMD technology can now also prove its performance in hot applications such as in the steel or glass industries.

Cooling or protection box

After connection to a cooling circuit via the standardized 3/8" tube connections, the temperature on the inside of the cooling box can be cooled down to an "electronics friendly" temperature. If you screw off the tube connections, the box can be used as pure protection box for very harsh operating conditions.



Position detection of steel slabs in a rolling mill.







Applications: Steel producing / steel processing industry / glass industry

Dimensions W x H x D [mm]	Maximum operating temperature	Material	Diameter cable entry [mm]	Part No.	List Price (USD)
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Cooling and protection box for distance sensors of the O1D series

70 x 109 x 108	180 °C (356 °F) water cooling 100 °C (212 °F) air cooling	Aluminum, anodized, glass nickel-plated brass, NBR, FPM	4...9	E 21248	\$285.00
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Connectors and splitter boxes

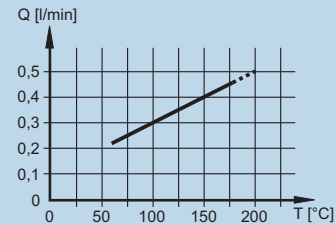
Type	Description	Part No.	List Price (USD)
	M12 socket, wirable 4-pole, PA, nickel-plated brass	E 11509	\$14.00
	High temperature resistant cable, 180 °C, 4 wires, silicone, 10 m	E 12274	\$17.50

Accessories

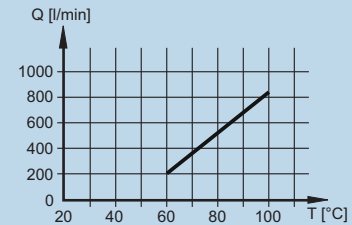
Type	Description	Part No.	List Price (USD)
	Mounting set for clamp mounting (without rod), Ø14 mm, SS	E3D 103	\$29.00
	Rod, 100 mm, Ø 14 mm, M12 thread, stainless steel	E 20939	\$8.00
	Rod, 200 mm, Ø 14 mm, stainless steel	E 21228	\$19.00
	Rod, 300 mm, Ø 14 mm, stainless steel	E 21229	\$20.00

Temperature curve

minimum volumetric flow quantity water (20°):



minimum volumetric flow quantity air (20°):



Q: volumetric flow quantity in litres per minute
T: ambient temperature in degrees Celsius

Lit. No.: B30511