

for the ...IPM1145 Series

cool.Jacket

Active housing cooling: High Definition meets High Temperatures

Datasheet.

Features.

Compatible with

ExCam IPM1145 RoughCam IPM1145
ExCam IPM1145-L RoughCam IPM1145-L

Concept

Active hydraulic cooling system for the ExCam/RoughCam IPM114x Series.
The water streams through the cooling element so that via a heat-exchange, the interior temperature does not exceed the maximum, hence extending the functional temperature range.
The flow of the cooling medium can either be controlled automatically or manually. In order to reach the maximum cooling capacity, the cooling medium's temperature must not exceed 35°C.

Customer specific requirements and conditions

The cool.Jacket is a BTO (Build-to-Order) accessory and will be configured individually to reflect the customer specific requirements. This is also valid for the area of application, the temperatures, and the supply with cooling water.



Data.

Mechanical characteristics

Housing material: Aluminium EN AW 6082
EN AW-AL Si1 Mg Mn

Weight: 1237g

Allowed ambient temperature

For ExCam IPM1145 (temp. class = T5): -30°C to +70°C
For ExCam IPM1145-L (temp. class = T5): -30°C to +65°C
For RoughCam: -30°C to +150°C

Connection line water

Supply water: < 1 bar

Maximum water temperature: 35°C

Volume flow: $Q_{min} = 7 \text{ l/min}$

Outer diameter: 3/8"
Insulation (Armaflex) 20 mm

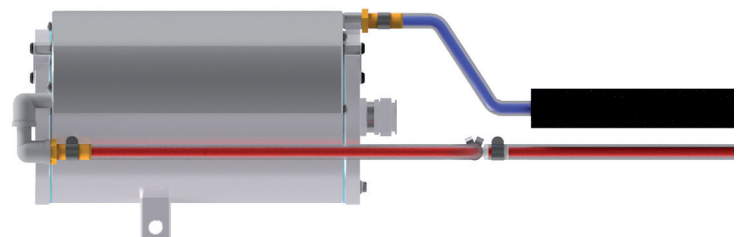
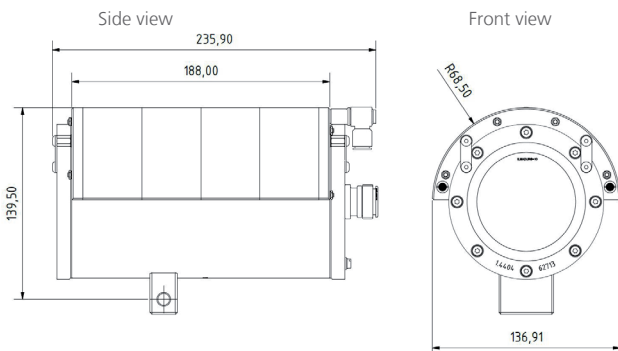
Minimum bending radius: 50 mm

Physical properties:

Specific thermal conductivity: $\lambda = 170-220 \text{ W/(m}^*\text{K)}$
Specific heat capacity: $c = 896 \text{ J/(m}^*\text{K)}$
Thermal conduction coefficient: 0.556

Dimensions.

T08-VA2.1.K1.BOR-C-XXX-X-xH



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