



TPCC cooling housing Dx100

Mounting systems

ACCESSORIES

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
TPCC cooling housing Dx100	6048328

Other models and accessories → www.sick.com/Mounting_systems

Product description

The TPCC cooling jacket works using the Peltier effect, making it possible to operate sensors permanently at ambient temperatures of +75 °C – temporarily even up to +80 °C. In addition, the TPCC is able to significantly increase the operational lifetime of sensors. Due to physical constraints, the operational lifetime of a laser sensor halves for each 10 °C increase in temperature. The TPCC offers optimal sensor protection, reduces unexpected failures and associated system downtime for applications in hot environments, regardless of whether it is location or process-related. Its consistently long operational lifetime goes hand-in-hand with reducing replacement costs and production standstills. The innovative TPCC protects sensors, increases productivity and saves money.

At a glance

- Efficient protection for sensors at ambient temperatures between -20 °C and +80 °C
- Maintenance-free Peltier cooling with 24 V / 15 A
- Rugged glass-fiber reinforced plastic housing with front screen
- Thermostatic internal temperature control
- Temperature monitoring with automatic cut-off in the event of excess temperatures
- Adjustable bracket for easy mounting

Your benefits

- Active sensor cooling through Peltier effect extends the operational lifetime by 15% at 25 °C ambient temperature and up to 400% at 45 °C. Less frequent sensor exchange significantly reduces operational costs.
- Increased sensor reliability reduces unexpected failure and associated system downtime. This effectively lowers costs associated with system breakdowns and increases productivity.
- Consistent internal temperatures guarantee high accuracy of the measured values for precise measurement results.
- Electric Peltier cooling is maintenance-free and only requires a 24 V connection instead of complex water or air system

Detailed technical data

Technical specifications

Accessory group	Device protection (mechanical)
Accessory family	Cooling elements
Description	Thermo protection cooling case, peltier cooling unit, fiber glass housing. Due to lack of space 90° angled pre-assembled connectors must imperatively be used.
Weight	7.5 kg
Operating voltage	24 V DC
Current consumption	15 A
Enclosure rating	IP54
Ambient operating temperature	-40 °C ... +75 °C
Storage temperature	-40 °C ... +75 °C

Classifications

ECI@ss 5.0	27279202
ECI@ss 5.1.4	27279202
ECI@ss 6.0	27279202
ECI@ss 6.2	27279202
ECI@ss 7.0	27279202
ECI@ss 8.0	27279202
ECI@ss 8.1	27279202
ECI@ss 9.0	27273701
ETIM 5.0	EC002615
ETIM 6.0	EC002615
UNSPSC 16.0901	32131001

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com