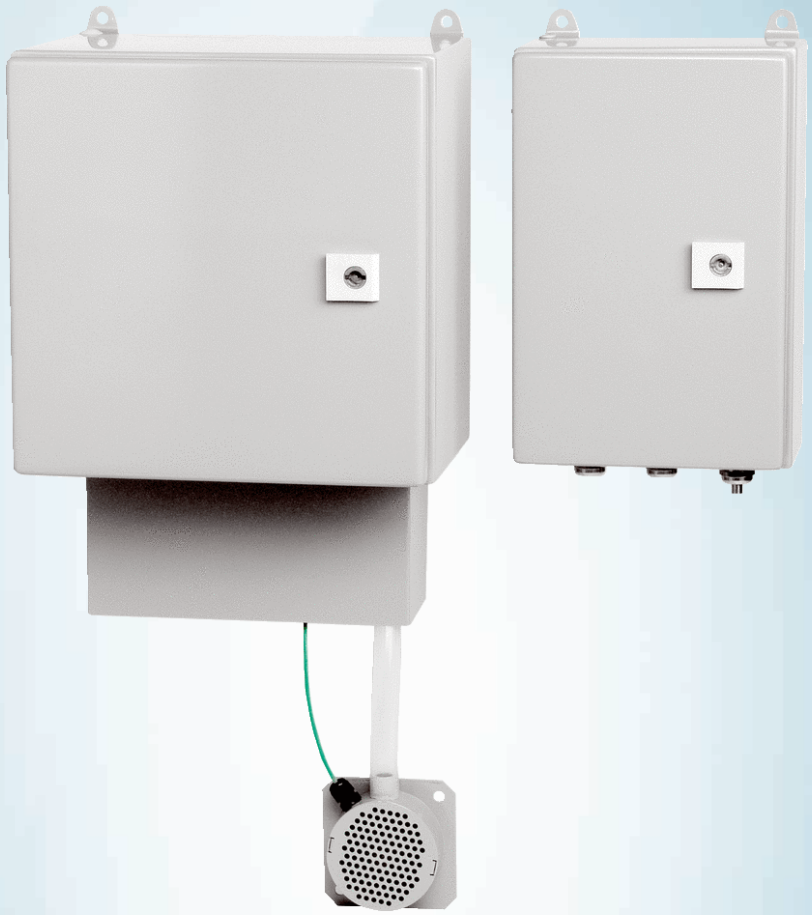
Product data sheet



System SMOTEC450

SMOTEC450

SMOKE DETECTORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
System SMOTEC450	On request

Our regional sales organization will help you to select the optimum device configuration.

Other models and accessories ➜ www.sick.com/SMOTEC450

Detailed technical data

Technical specifications

Measured values	Visibility (K-value)
Maximum number of measurands	1
Measurement principles	Scattered light forward
Spectral range	640 mm ... 660 mm Laser, protection class 2, power < 1 mW
Gas flow rate	30 l/min ... 35 l/min
Measuring ranges	
K-value	0 ... 150 km^{-1} / 0 ... 2,000 km^{-1}
Temperature	–50 ... +250 °C
	Limit value for smoke detection: 15/km
Response time (t_{90})	0 s ... 600 s Freely adjustable; without measuring delay due to suction line
Resolution	± 2 km^{-1}
Repeatability	± 2 %: of measuring range full scale
Ambient temperature	–30 °C ... +55 °C
Storage temperature	–40 °C ... +60 °C
Electrical safety	CE
Enclosure rating	IP66
Dimensions (W x H x D)	
Measuring unit	300 mm x 340 mm x 215 mm (for details see dimensional drawings)
Weight	

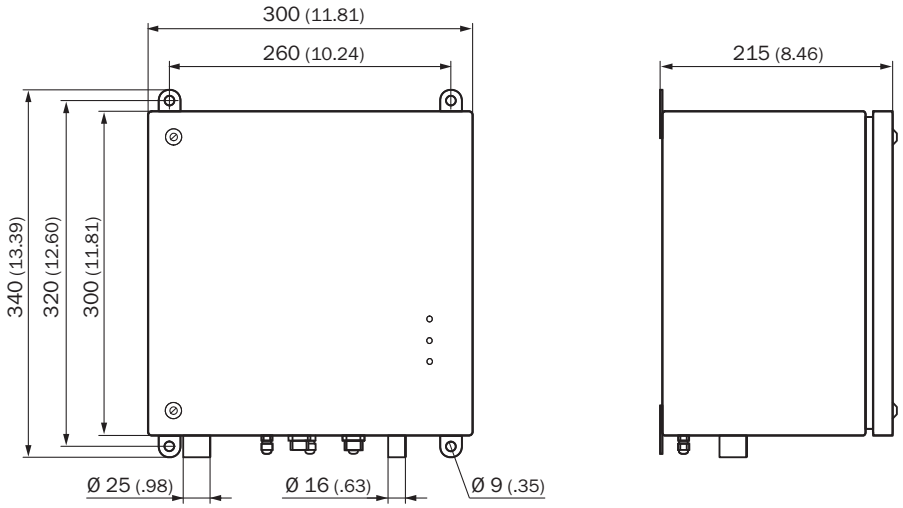
	12 kg
Energy supply	
Voltage	90 V AC ... 250 V AC
Frequency	50 Hz / 60 Hz
Power consumption	≤ 35 VA
Test functions	Automatic self-test Contamination limits: at 30% warning, at 50% failure Manual linearity test with reference filter
Options	Temperature measurement

Classifications

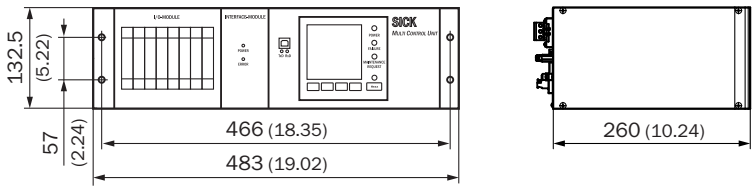
ECLASS 5.0	27150306
ECLASS 5.1.4	27150306
ECLASS 6.0	27150306
ECLASS 6.2	27150306
ECLASS 7.0	27150306
ECLASS 8.0	27150306
ECLASS 8.1	27150306
ECLASS 9.0	27150306
ECLASS 10.0	27150306
ECLASS 11.0	27150306
ETIM 5.0	EC001190
ETIM 6.0	EC001190
ETIM 7.0	EC001190
ETIM 8.0	EC001190
UNSPSC 16.0901	41115406

Dimensional drawing (Dimensions in mm (inch))

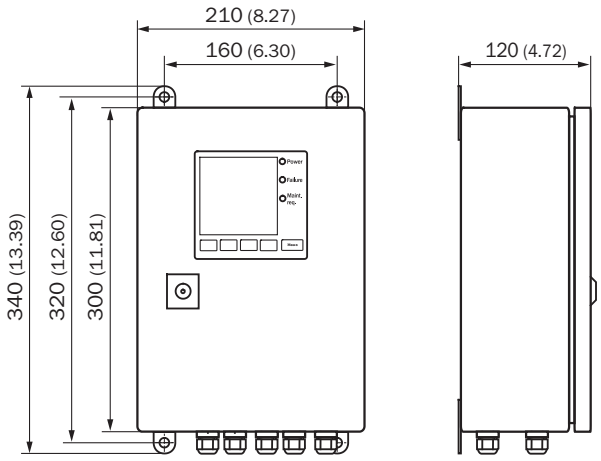
SMOTEC450 measuring unit



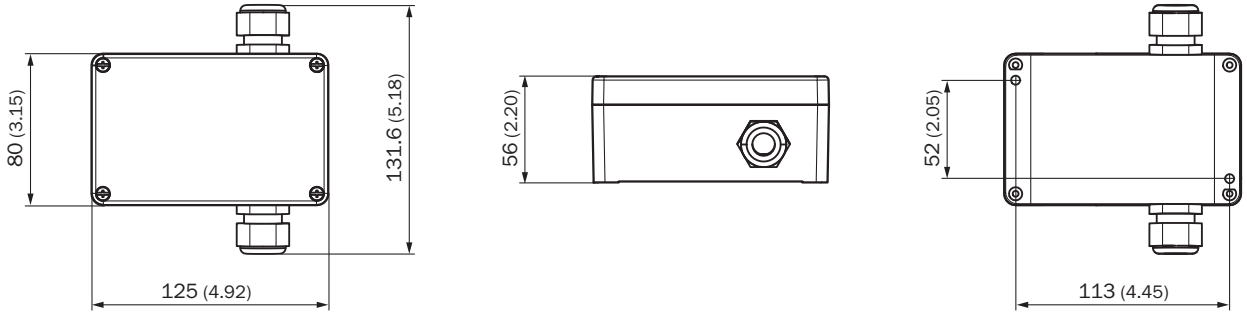
MCUP control unit; 19″-rack enclosure (for non-hazardous areas only)



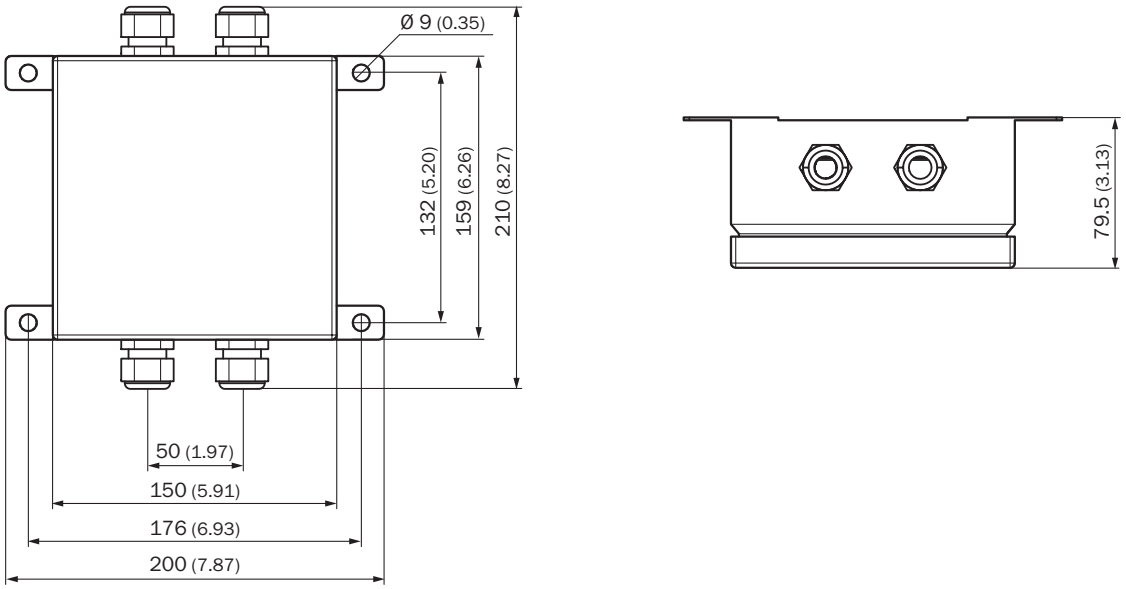
MCU-N control unit; wall-mounting enclosure, compact version (for non-hazardous areas only)



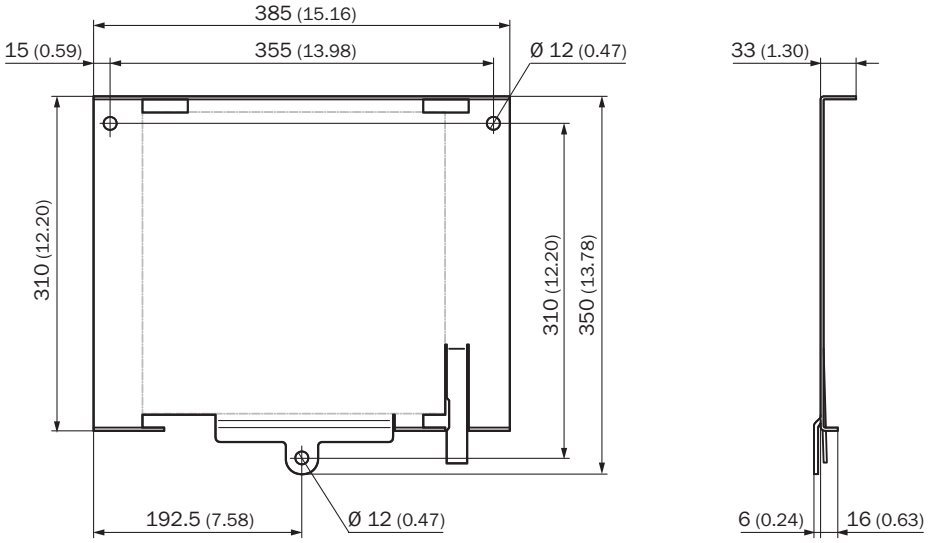
Connection unit; standard version



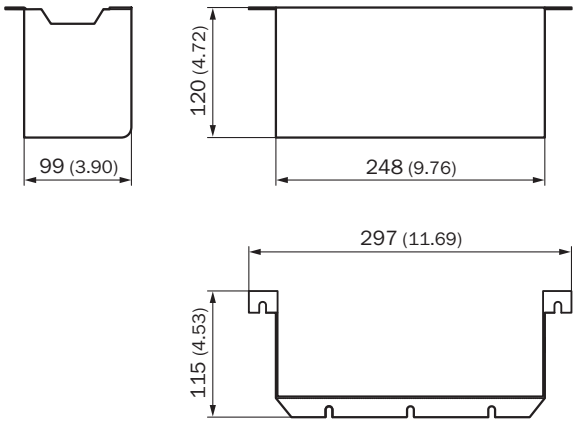
Connection unit; stainless steel version



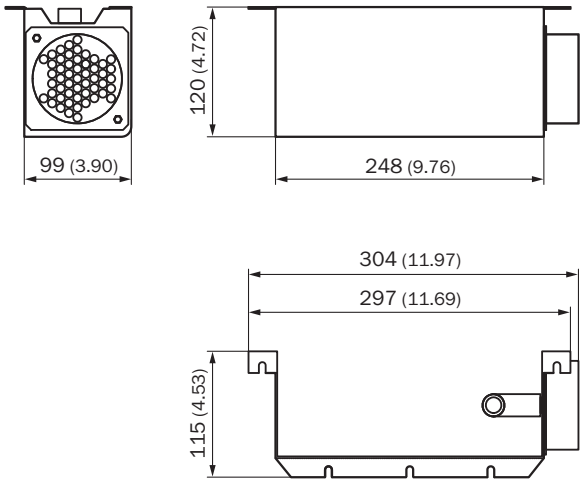
Mounting plate



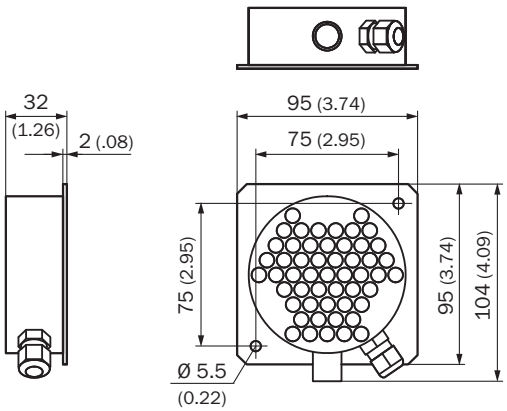
Cover for connections



Cover for connections; with air inlet at the side



Air inlet with protective grading for wall mounting



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