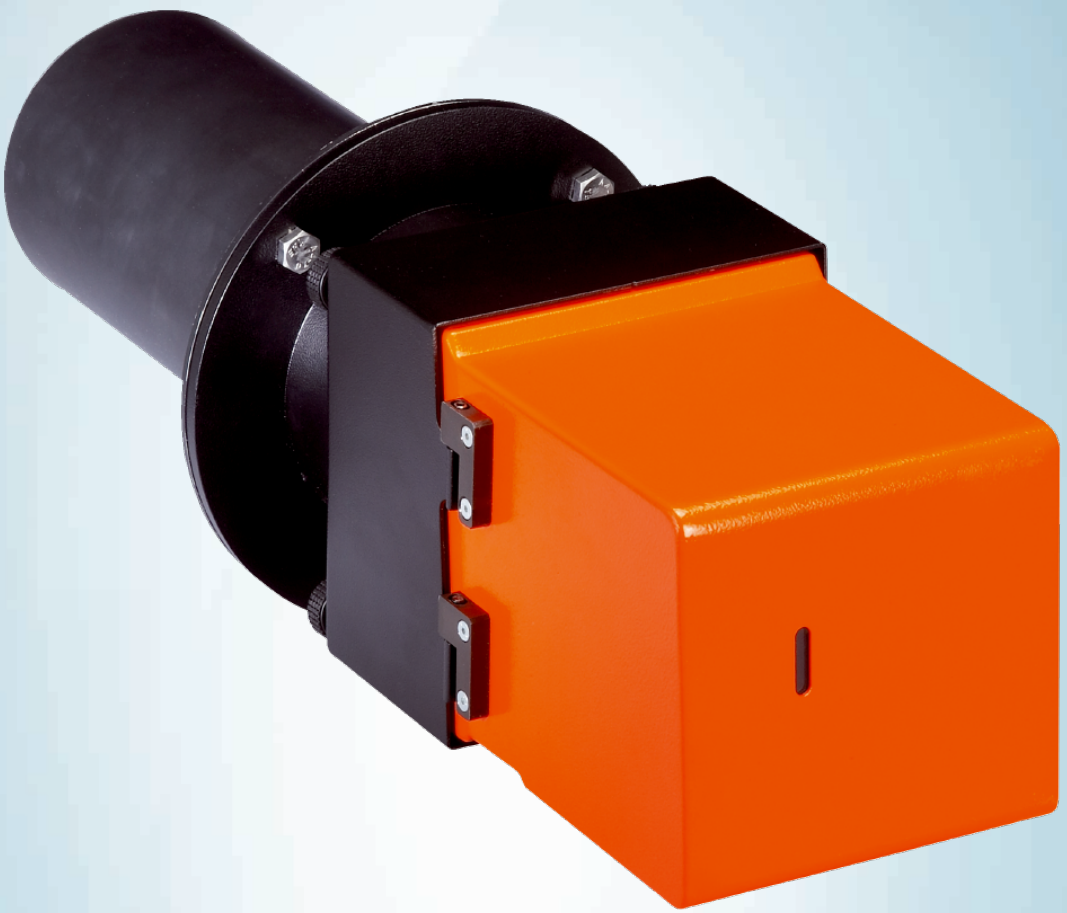
Product data sheet



System DUSTHUNTER SB100

DUSTHUNTER SB100

DUST MEASURING DEVICES

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
System DUSTHUNTER SB100	On request

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

Other models and accessories ➜ www.sick.com/DUSTHUNTER_SB100

Detailed technical data

Technical specifications

Measured values	Scattered light intensity, dust concentration (after gravimetric comparison measurement)
Performance-tested measurands	Scattered light intensity
Measurement principles	Scattered light backward
Spectral range	640 nm ... 660 nm Laser, protection class 2, power < 1 mW
Measuring ranges	
Dust concentration	0 ... 10 mg/m³ / 0 ... 200 mg/m³ Higher measuring ranges on request
Certified measuring ranges	
Scattered light intensity	0 ... 100 SI / 0 ... 15 SI / 0 ... 50 SI / 0 ... 200 SI
Response time (t_{90})	1 s ... 600 s Freely adjustable
Accuracy	≤ 2 % Of measuring range full scale
Conformities	Approved for plants requiring approval 2001/80/EC (13. BImSchV) 2000/76/EC (17. BImSchV) 27. BImSchV TA-Luft (Prevention of Air Pollution) EN 15267 EN 14181 MCERTS 2010/75/EU
Electrical safety	CE
Test functions	Automatic self-test (linearity, contamination, drift, aging) Contamination limit values: warning at 20%, fault at 30% Manual linearity test with reference filter

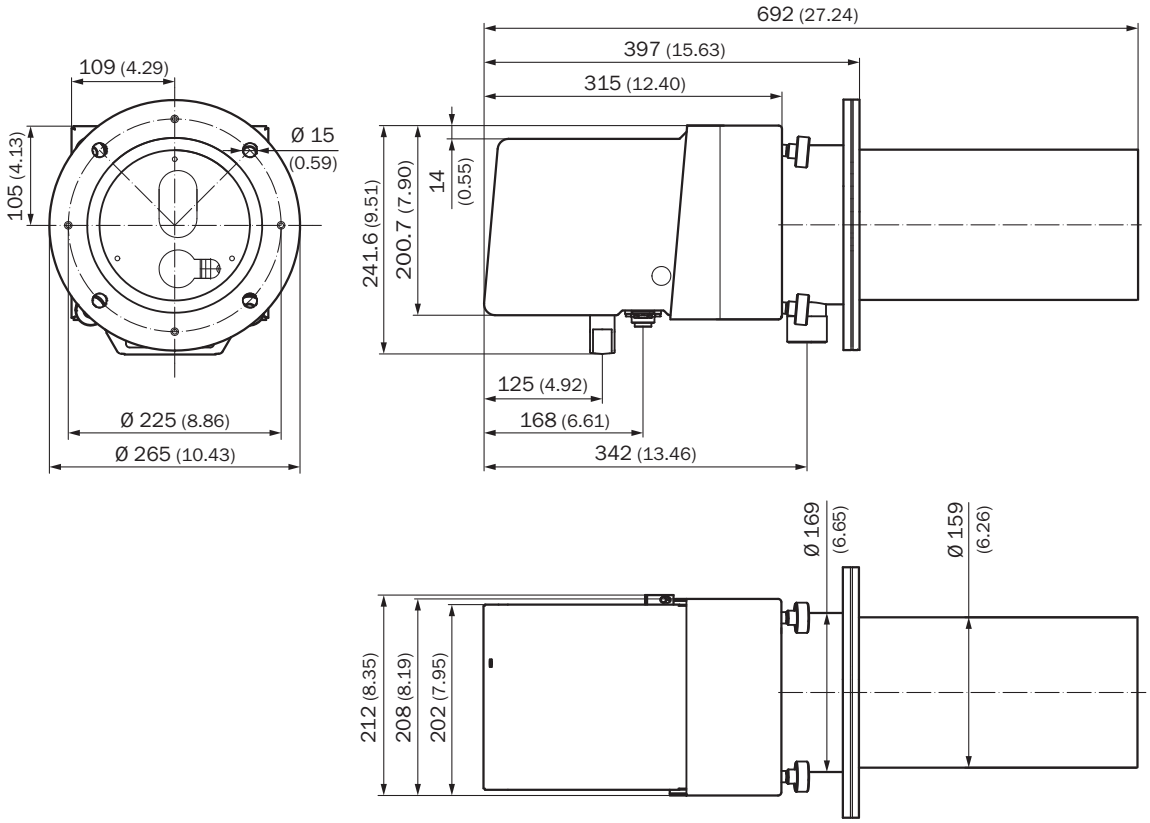
Classifications

ECLASS 5.0	27150306
ECLASS 5.1.4	27150306
ECLASS 6.0	27150306
ECLASS 6.2	27150306

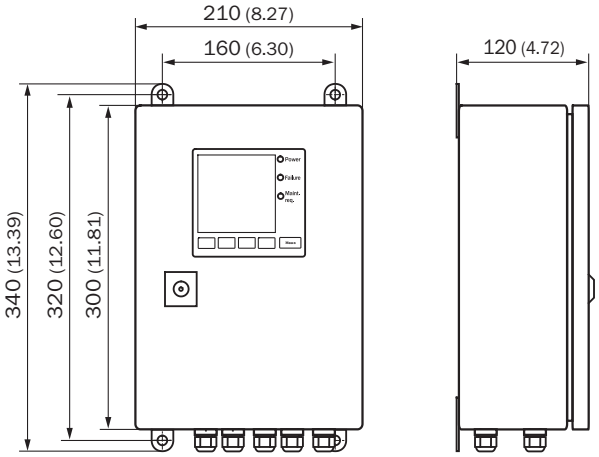
ECLASS 7.0	27150306
ECLASS 8.0	27150306
ECLASS 8.1	27150306
ECLASS 9.0	27150306
ECLASS 10.0	27150306
ECLASS 11.0	27150306
ECLASS 12.0	27150306
ETIM 5.0	EC001190
ETIM 6.0	EC001190
ETIM 7.0	EC001190
ETIM 8.0	EC001190
UNSPSC 16.0901	41115406

Dimensional drawing (Dimensions in mm (inch))

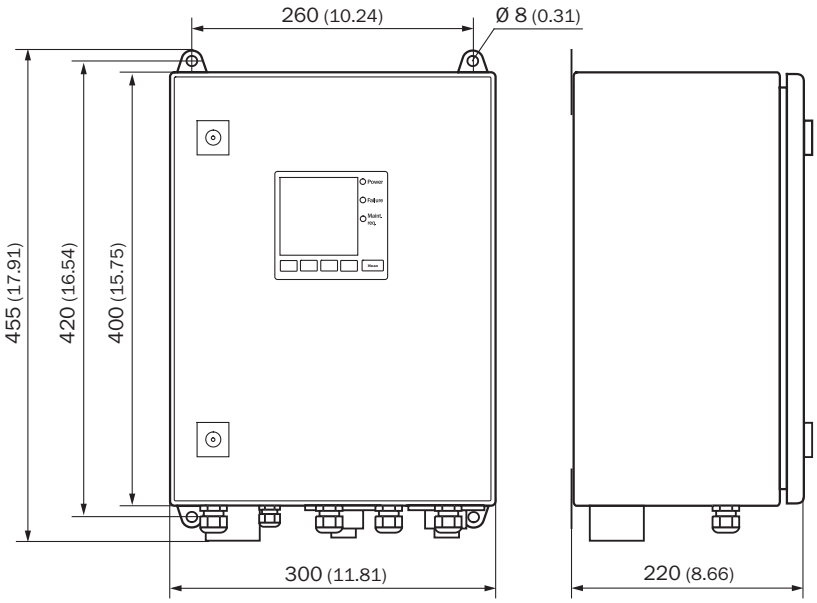
DHSB-T10/-T11 sender/receiver unit



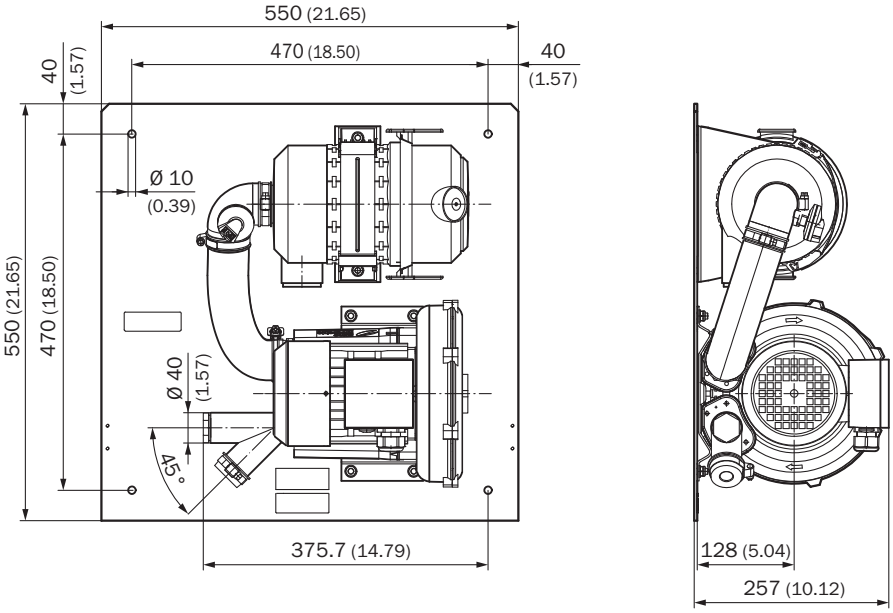
MCU-N control unit; wall-mounting enclosure, compact version (for non-hazardous areas only)



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



SLV4-2 purge air unit, 2BH1300



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