Data sheet



VMS5100 MID

VMS4x00/5x00

TRACK AND TRACE SYSTEMS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
VMS5100 MID	On request

Other models and accessories ➜ www.sick.com/VMS4x00_5x00

Detailed technical data

Features

Products by tasks	Measuring - Dimension, contour and volume
Applications	Object measurement (non-contact, dynamic) Volume measurement Position measurement Checking object dimensions Package sorting Master data acquisition
Legal-for-trade	✓
Misalignment of the object	+ 360°
Conveyor type	Belt conveyor
Object infeed and outfeed	Automatic

Mechanics/electronics

Enclosure rating	IP20 (DIN 40050)
Supply voltage	230 V AC 100 V AC ... 264 V AC
Mains frequency	50 Hz ... 60 Hz

Performance

Transport speed	≤ 0.1 m/s ... 3 m/s, start-stop operation possible
Minimum object size	50 mm x 50 mm x 20 mm 2 ″ x 2 ″ x 1 ″
Maximum object size	5,500 mm x 1,200 mm x 1,100 mm 216 ″ x 47 ″ x 43 ″
Minimum object distance	50 mm, touching/Side-by-side possible
Accuracy of object coverage	± 5 mm x ± 5 mm x ± 2 mm ± 0.2 ″ x ± 0.2 ″ x ± 0.1 ″
Certification	MID, OIML NTEP on request
Dynamic scale value	✓
Side-by-side	✓
Touching objects	✓

Interfaces

Fieldbus, industrial network	Ethernet-based or serial RS232, 422, 485

Optical indicators	1, display
Output data	XML ASCII Customer protocol
Configuration interface	Ethernet SOPAS Engineering Tool

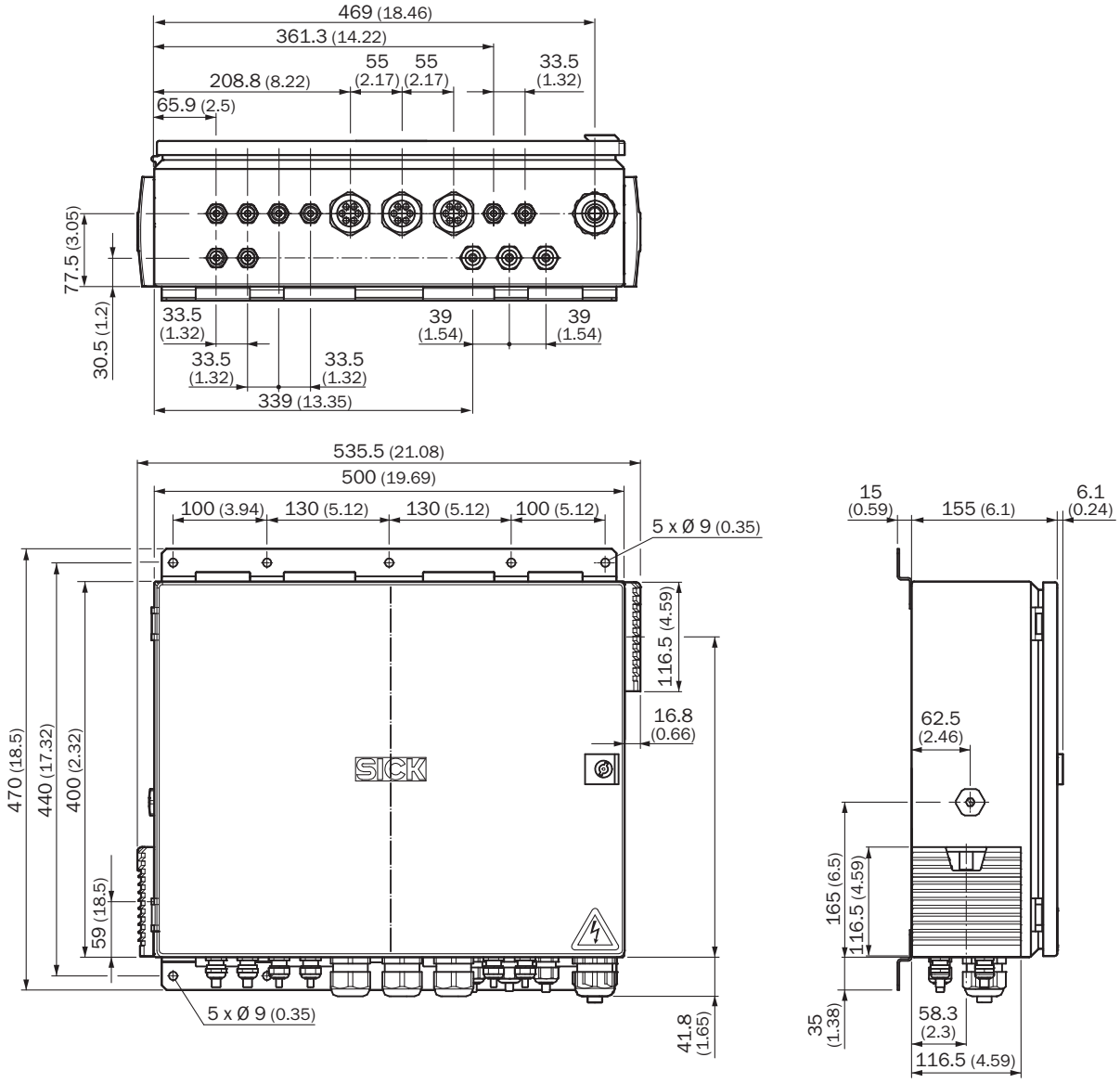
Ambient data

Ambient operating temperature	–10 °C ... +50 °C
Ambient temperature, storage	–20 °C ... +70 °C
Permissible relative humidity	95 %, Non-condensing
Electromagnetic compatibility (EMC)	EN 61000-4-2:2009, EN 61000-4-11:2005 EN 61000-4-3:2011 EN 61000-4-4:2013
Object remission	10 % ... 200 %, based on Kodak White Paper and red light laser), non-glossy (e.g. tape)
Shock load	EN 60068-2-65, –27, –29, –64
Vibration load	EN 60068-2-65, –27, –29, –64
Requirements conveyor	Straight and level conveyors with a uniform and level surface (in the measurement location area)

General notes

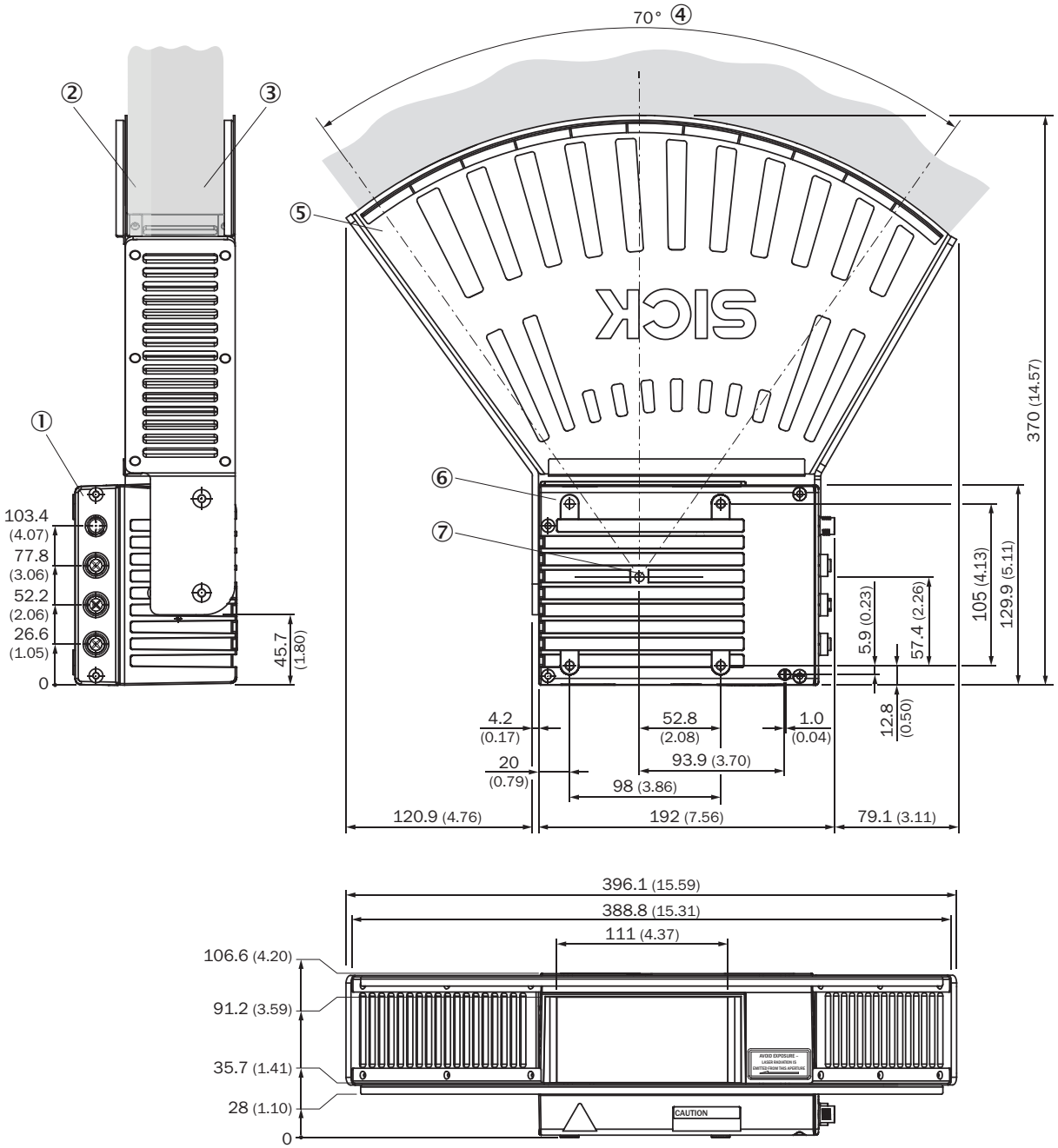
Items supplied	1 x display 1 x SIM2000-2 P 1 x encoder 1 x LMS4000 head 1 x photoelectric sensor (optional) Connection cables, holders, and frame options depending on the application
Laser class	2, with laser protection cover

Dimensional drawing SIC2000 controller (for example, SIC2000-2100)



Dimensions in mm (inch)

Dimensional drawing LMS4x2x head with laser protection cover



Dimensions in mm (inch)
① interfaces, types and number can vary
② Sending area
③ receiving area
④ aperture angle
⑤ Optical hood
⑥ reference boreholes
⑦ Distance measurement zero point

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