



# ALDIS-L50001AC

Automated Load Detect Ident System

LOCALIZATION SYSTEMS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
ALDIS-L50001AC	1139251

**Included in delivery:** TDC-E210AC (1), CLV650-0120 (1)

Other models and accessories → [www.sick.com/Automated\\_Load\\_Detect\\_Ident\\_System](http://www.sick.com/Automated_Load_Detect_Ident_System)

### Detailed technical data

#### Features

<b>Product category</b>	Gateway and cloud solutions
<b>Application</b>	Indoor area
<b>Identification technology</b>	Laser-based code reading
<b>Sensor</b>	Acceleration sensor, Magnetometer, Thermometers
<b>Optical indicators</b>	3 (LED) status displays
<b>Internal computer</b>	1 GB, DD3, dual-core Cortex-A7 with Cortex-M4 co-processor
<b>Internal memory</b>	16 GB
<b>Operating system</b>	Linux and Micro Services
<b>Ecosystem</b>	Docker
<b>User interface</b>	TDC-E Device Manager, User Manager, Interface Manager, Portainer, TEMS Web interface
<b>Data protocol</b>	MQTT, REST API
<b>Data format</b>	JSON
<b>Connectivity</b>	Mobile communication (4G) WLAN LAN
<b>Mobile network</b>	Global coverage, LTE TDD: 1900/2300/2500/2600, LTE-FDD: 700/800/850/900/1700/1800/1900/2100/2600, UMTS: 850/900/1700/1900/2100
<b>Region of use</b>	North America, Latin American
<b>Housing material</b>	Polyamide PA6
<b>Housing color</b>	Light blue (RAL 5012)
<b>Housing dimensions (W x D x H)</b>	162 mm x 32 mm x 128 mm
<b>Items supplied</b>	TDC-E210AC with ALDIS software module, CLV650 fixed mount barcode scanner

#### Mechanics/electronics

<b>Supply voltage</b>	24 V DC (9 V DC ... 36 V DC)
<b>Power consumption</b>	2.4 W
<b>Enclosure rating</b>	IP20 (according to DIN EN 60529)

#### Interfaces

<b>Ethernet</b>	✓ (2)
Data transmission rate	10 Mbit/s ... 1,000 Mbit/s
Electrical connection	RJ45

<sup>1)</sup> Analog measurement of voltage (0 - 36 V) with an accuracy of  $\pm(0.2\%+30 \text{ mV})$ , current (0 - 32 mA), with an accuracy of  $\pm(1\%+0.1 \text{ mA})$ , input resistance 27.5 k $\Omega$  typical for voltage mode, 100  $\Omega$  typical for current mode.

<b>Wireless LAN</b>		✓
	Data transmission rate	≤ 65 Mbit/s, single band 2.4 GHz
	Protocol	IEEE 802.11 b/g/n
<b>USB</b>		✓
<b>Serial</b>		✓
	Electrical connection	Micro-Fit (20-pin)
<b>CAN bus</b>		✓ (2)
	Data transmission rate	1 Mbit/s, adjustable
	Protocol	J1939, CANOpen
	Electrical connection	Micro-Fit (20-pin)
<b>Inputs/outputs</b>		
	I/O	6 analog inputs (configurable, current and voltage), 6 digital inputs/outputs (configurable), 2 additional digital inputs, 2 additional digital outputs <sup>1)</sup>
<b>Optical indicators</b>		3, LED, status displays
<b>Connections</b>		
	Molex	1x 14 pin connector (PWR, DIOs and Analog-Inputs)
	Molex	1x 20 pin connector (additional DIOs, 1-wire, RS-232, RS-422/485/SSI, CAN A, CAN B)
	Ethernet	1x ETH0
	Ethernet	1x ETH1
	USB 2.0	1x type A
	SMA	2x antenna connector
	MCX	1x antenna connector
	USB	1 x Micro-B (on board)
<b>Configuration interface</b>		Web-Interface, REST API

<sup>1)</sup> Analog measurement of voltage (0 - 36 V) with an accuracy of  $\pm(0.2\%+30 \text{ mV})$ , current (0 - 32 mA), with an accuracy of  $\pm(1\%+0.1 \text{ mA})$ , input resistance 27.5 kΩ typical for voltage mode, 100 Ω typical for current mode.

## Ambient data

<b>Ambient operating temperature</b>	0 °C ... +40 °C
<b>Ambient temperature, storage</b>	-20 °C ... +70 °C
<b>Electromagnetic compatibility (EMC)</b>	EN 303446-1 EN 55032 EN 55024 EN 61000-3-2 EN 61000-3-3
<b>Product safety</b>	EN 62311:2008
<b>Radio approval</b>	RED

## Classifications

<b>ECLASS 12.0</b>	19179090
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## 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](http://www.sick.com)