Made in Germany

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Technical Information

GEL SEHMI

SeGMo-Assist

Nominal Value Display

D-51T-SEHMI | Version 2026-09-29

CANopen

IO-Link

cULus

LENORD +BAUER

Finding solutions.
Founding trust.

Motion sensors and integrated drive technology

SeGMo-System

The SeGMo-System is designed for the efficient integration of multiple positioning drives and position indicators into a machine or system.

The system consists of the following components:

- SeGMo-Positioning:
  Positioning drive for fully automatic format adjustment
- SeGMo-Assist:
  Position indicator for manual adjustment operations
- SeGMo-Lib:
  Pre-built function blocks for integration into the system control
- SeGMo-Support Tool:
  Software for advanced commissioning and configuration
- SeGMo-ImgConv Tool:
  Tool for converting image files into pictograms for SeGMo-Assist
- SeGMo-Service Tool:
  Software for advanced commissioning and configuration of Industrial Ethernet interfaces

SeGMo-Positioning

The positioning drives are complete mechatronic systems featuring a battery-free multiturn encoder, gearbox, and motor, as well as integrated power and control electronics. We also offer these for standalone use. With rated torques of up to 18 Nm [13.28 ft•lbf], they cover the performance range typical for secondary axes.

SeGMo-Assist

The position displays facilitate manual adjustment processes by showing target and actual positions. Products are available for rotary and linear applications. Another product without a Measuring system assists the operator, for example, during format or tool changes.

SeGMo-Positioning

6109 6110 6113



6008 6009 6013



SeGMo-Assist

SEPODR SEPODL SEHMI



SEROT SELIN



Overview: Nominal Value Display

General Information

- Display to assist the operator, for example, during format part or tool changes



Features

- Housing material: Plastic housing, ABS
- Operating temperature range:
  0 °C ... +60 °C [32 °F ... 140 °F]
- Bright graphic display
  - Display of custom pictograms
- Degree of protection: IP 65
- Communication interfaces:
  CAN bus with CANopen protocol (CiA 406 profile) or IO-Link
- cULus Component Recognition

Advantages

- Resistant to EMC interference
- Simple wiring
- Extremely compact for tight installation spaces
- Freely programmable pictograms for easy user guidance
- No electrical maintenance required

Applications

- Packaging Machinery
- Food and Filling Systems
- Wood and plastic processing machinery
- General machinery and plant engineering

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Type Code and Certification Information

Type Code

SEHMI	Product Type		
	C	**Design** cULus Recognized Component	
		CO CAN bus with CANopen protocol **IL** IO-Link	**Communication Interface**
▼	▼	▼	
SEHMI	_	_ _	◀ **Product code**

Certification: cULus Recognized Component (Document E538098)

- The devices were tested as control devices without calibration tests.
- The device's housing does not provide protection against spilled liquids.
- Only connection cables certified to Category CYJV/7 or PVVA/7 may be used.
- Only flexible copper wires with a temperature rating of at least 75 °C [167.0 °F] may be used for the connection.
- The input and output connectors are suitable for field wiring.
- The devices are not intended for direct connection to the power grid. The power supply must ensure galvanic isolation from the main power supply. Class I and II power supplies:
  - A UL 248-compliant fuse must be installed in the supply line between the power supply unit and the device. Depending on the supply voltage, the fuse must have a rating of I = 100 W/UB (supply voltage UB: 20 V … 30 V DC)
- The following power supplies are permitted:
  - Class III (SELV, PELV, and limited energy in accordance with Section 9.4 of UL/CSA 61010-1, 3rd Edition)
  - Class II limited to 100 VA and a maximum of 30 V (meets the requirements of UL 1310, UL 60950-1, or UL 62368-1)
  - Class I in accordance with IEC 61010-2-201 and UL 61010-2-201, limited to 100 VA and a maximum of 30 V
- The devices have been tested only for use in Overvoltage Category II.
- Protective measures against surges must be provided in accordance with overvoltage category II.

Accessories and Spare Parts

CAN Bus Connection Accessories

Description	Item number
ZB CAN-Bus Cable, 2 m [78.74 in], M12	ZBSGX01
ZB CAN-Bus Cable, 5 m [196.85 in], M12	ZBSGX02
ZB CAN-Bus Cable 10 m [393.70 in] M12	ZBSGX03
ZB CAN-Bus Cable, 2 m [78.74 in], M12, open-ended	ZBSGX04
ZB CAN bus cable, 10 m [393.70 in], M12, open-ended	ZBSGX05
ZB CAN-Bus T-Splitter, M12 (1)	ZBSGX06
ZB CAN-Bus Y-Splitter, M12 (1)	ZBSGX09
ZB Terminating Resistor, CAN Bus, M12 (1)	ZBSGX07

(1) Not UL-certified

IO-Link Connection Accessories

Description	Item number
ZB IO-Link Cable 2 m [78.74 in] M12	ZBSGX11
ZB IO-Link Cable 5 m [196.85 in] M12	ZBSGX12
ZB IO-Link Cable 10 m [393.70 in] M12	ZBSGX13

Spare Parts

Designation
Functional Ground Label: “Low-interference ground” pictogram, white-black, Ø 12.5 mm [0.49 in], in accordance with IEC 60417

Description

General Description

The nominal value display shows setpoint positions or operating states of machine shafts or spindles. It is mounted with two screws near a machine shaft or spindle that needs to be adjusted and connected to a system controller via the communication interface.

Connection

The nominal value display is powered by a supply voltage of 20 … 30 V DC. The communication interface handles bus communication and the power supply for the position display.

The nominal value display requires the connection of a functional ground wire. The connection is made via a flat connector. We recommend a wire cross-section of 4 mm² [12 AWG].

Display and Control Elements

The nominal value display is equipped with a graphic display.

The following values can be read:
- Setpoint position
- Operating states

Diagnostic displays assist the user with troubleshooting.

Menu navigation is controlled via three membrane buttons below the display.

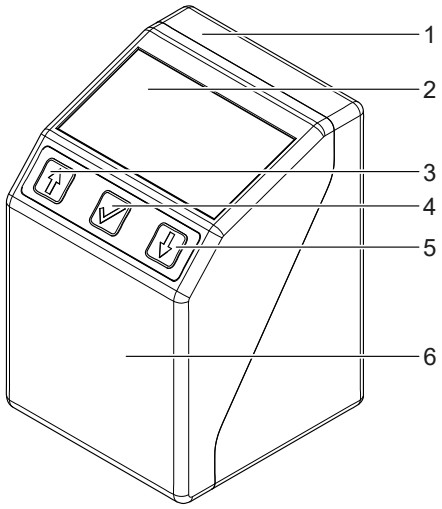
Pictograms

The SeGMo-ImgConv tool allows you to design your own pictograms, thereby simplifying user guidance. The position display can store up to 40 custom pictograms.

Installation

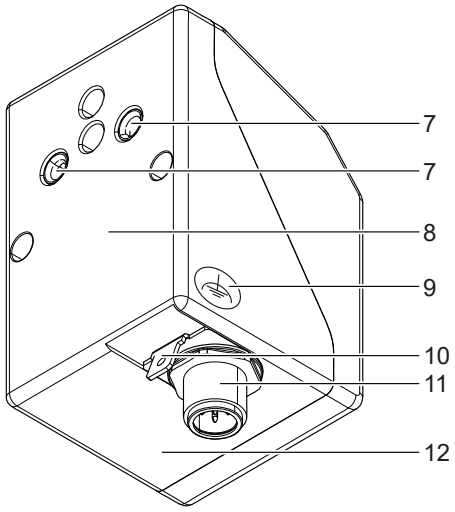
The nominal value display is secured with two M5 screws. We recommend greasing the screw threads before tightening. The maximum screw-in depth of the nominal value display is 7 mm [0.28 in].

Specified Parts



Front

1 Housing: Top
2 Display
3 Navigation button
4 Confirm button
5 Navigation button
6 Housing: Front



Back

7 M5 threaded holes for mounting
8 Housing: Rear
9 Functional ground label
10 6.3 mm [0.25 in] flat plug: Functional ground
11 5-pin M12 male connector, A-coded: Communication interface and power supply
12 Housing: Bottom side

Technical Data

Electrical Data	
Supply Voltage U_B (Reverse-polarity protection, overvoltage protection)	20 … 30 V DC
Current consumption	≈ 30 mA at 24 V DC
Power consumption	Power supply requirements: Maximum power rating: 100 VA
Communication interfaces	CAN bus with CANopen protocol; IO-Link; no galvanic isolation
Mechanical Data	
Housing material	ABS plastic, anthracite
Viewing window material	Plastic, impact-resistant
Housing Dimensions (excluding connectors)	48 mm × 50 mm × 70 mm [1.89 in × 1.97 in × 2.76 in]
Weight	≈ 90 g [3.17 oz]
Connectors	
Communication interface and supply voltage	5-pin M12 male connector, A-coded
Functional ground	6.3 mm [0.25 in] flat plug
Control Elements	
Pushbutton	3 membrane buttons
Display elements	
Display	1.54" monochrome OLED, yellow (128 × 64 pixels, graphical), language: English
Ambient Data	
Operating temperature range	0 °C … +60 °C [32 °F … 140 °F]
Storage temperature range	-20 °C … +80 °C [-4 °F … 176 °F]
Maximum relative humidity	Condensation not permitted
Degree of protection	IP 65; in accordance with DIN EN 60529:2014-09 (Degree of protection not rated by UL!)
Dielectric strength	500 V AC; in accordance with DIN EN 61439-1:2012-06
EMC (1)	DIN EN 61326-1:2013-07; Class B device with immunity requirements for industrial environments
Vibration resistance	1 ... 100 m/s² [3.28 ... 328.08 ft/s²], 5 ... 15 Hz; 100 m/s² [328.08 ft/s²], 15 ... 159 Hz; in accordance with DIN EN 60068-2-6:2008-10
Shock resistance	800 m/s² [2,624.67 ft/s²], 6 ms, in accordance with DIN EN 60068-2-27:2010-02
Data for “cULus Recognized Component”	
Enclosure type	Enclosed
Device function	Process control device
Connection to the main power supply	No
Overvoltage category	II
Pollution degree	2
Protective devices	Class III (SELV or PELV and limited energy or LPS)
Humidity	Maximum 80% at temperatures up to 31 °C [87.8 °F], decreasing linearly to 50% relative humidity at 40 °C [104 °F]
Operating Altitude	≤ 2,000 m [1.24 mi]

Use in wet environments	No
Mobility of the device	Fixed
Operating conditions	Continuous
Classification according to UL61010-1	Type 1
Approvals	
European Economic Area	Compliance with the EMC Directive 2014/30/EU CE
United States and Canada	cULus Recognized Component Certification c UL us

(1) Use only shielded connection cables for the CAN-Bus (**CO**) communication interface.

Pin Assignments

CAN Bus (**CO**) Communication Interface and Supply Voltage

M12 A-coded



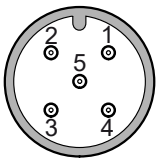
male contact
(plug-in view)

Pin designation	Signal designation
1	Functional ground (cable shield)
2	U_B (1)
3	CAN GND (1)
4	CAN-High
5	CAN-Low
Connector housing	Functional ground

(1) Power supply to the product and power supply to the communication interface

IO-Link (**IL**) Communication Interface and Supply Voltage

M12 A-coded



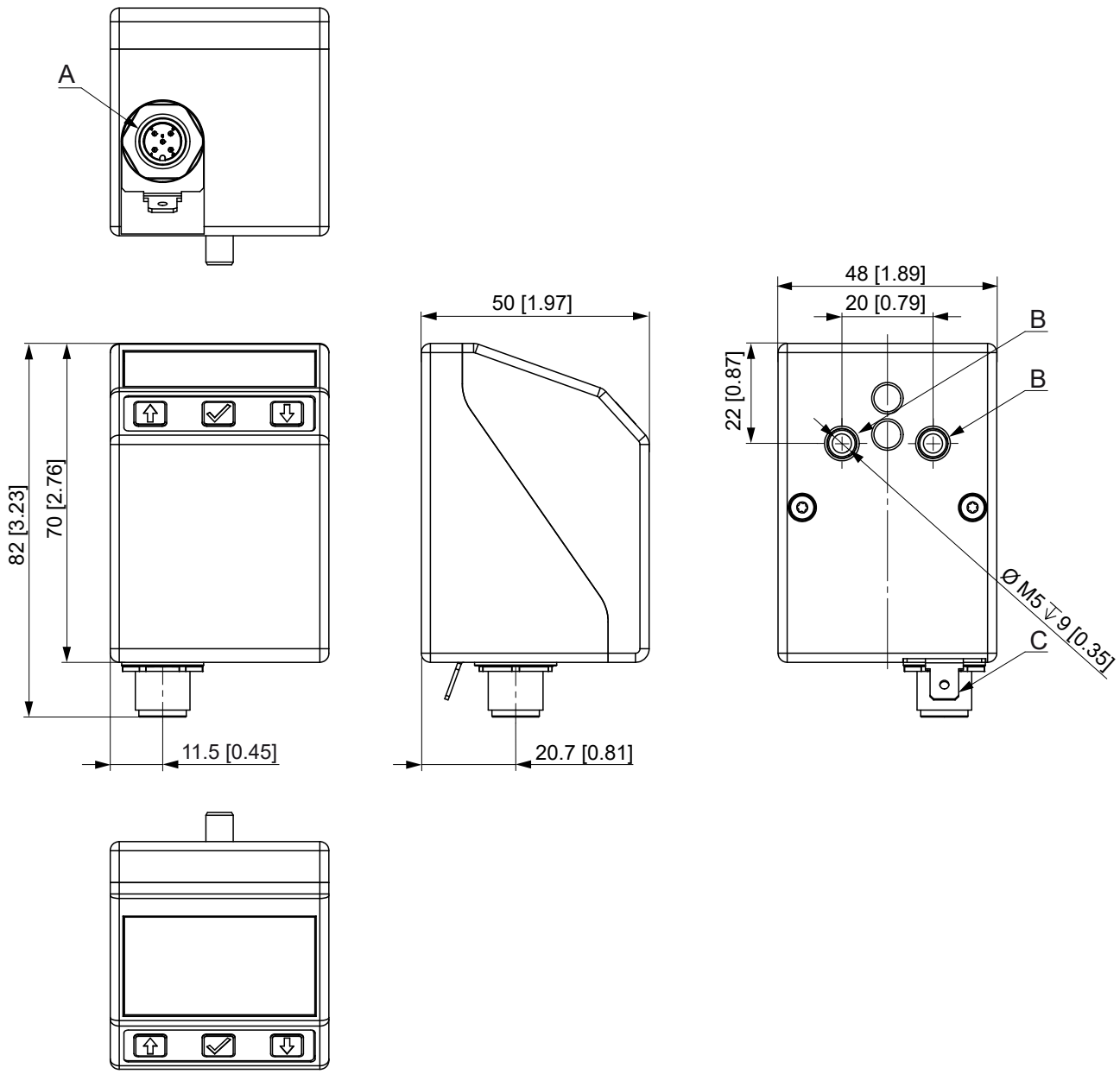
male contact
(plug-in view)

Pin designation	Signal designation
1	U_B (1)
2	Not Assigned
3	GND (1)
4	IO-Link C/Q
5	Not Assigned
Connector housing	Functional ground

(1) Power supply to the product and power supply to the communication interface

Dimension Drawing

All dimensions in millimeters [inches]



A Communication Interface and Supply Voltage
B 2 M5 threaded holes, maximum insertion depth: 7 mm [0.28 in]
C 6.3 mm [0.25 in] flat connector: functional ground

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