INSTALLATION GUIDE

LVDT series LV, LVIT, LVIG, LVISM, LVPH

For further information please see the data sheet at www.waycon.biz/products/inductive-sensors-lvdt/

FIRST STEPS

WayCon Positionsmesstechnik GmbH would like to thank you for the trust you have placed in us and our products. This manual will make you familiar with the installation and operation of our inductive sensors LVDT. Please read this manual carefully before initial operation!

Unpacking and checking:

Carefully lift the device out of the box by grabbing the housing. After unpacking the device, check it for any visible damage as a result of rough handling during the shipment. Check the delivery for completeness.

If necessary consult the transportation company, or contact WayCon directly for further assistance.

GENERAL NOTES

- Mount the sensor before connecting the external electronics.
- The LV series can optionally be mounted with flange or foot clamps.
- Do not use the sensors near strong magnetic fields.
- Protect the electronics from moisture and humidity.
- Avoid lateral forces on the push rod.
- Do not press in the push rod beyond the specified total mechanical stroke.
- For a measuring range of 100 mm or more, the sensor housing must be additionally stabilised. Otherwise the sensor may bend due to its own weight. In this case, we recommend using three mounting brackets.
- For sensors without WayCon electronics, the minimum of the output signal is at the electrical centre position. From there, half of the entire measuring range is in plus and half in minus (measuring range start and measuring range end).
- The sensor is calibrated to the electronics supplied. The calibration protocol supplied loses its validity as soon as the electronics are readjusted.
- Use the shortest possible cables between the sensor and the electronics.



ELECTRICAL CONNECTION LV

Sensor LV for e	Connector output M12,			
Function	Cable output	Connector output	Connection cable K4P	male
Primary 1	BN	Pin 1	BN	
Primary 2	WH	Pin 2	WH	2 0 1
Secondary 2	BU	Pin 3	BU	3 🛇 🔍 4
Secondary 1	ВК	Pin 4	BK	

Sensor LV for cable electronics LVC

Function	Cable output	Connector output	Connection cable K5P
Primary 1	BN	Pin 1	BN
Primary 2	WH	Pin 2	WH
Secondary 2	BU	Pin 3	BU
Secondary 1	ВК	Pin 4	BK
Secondary 1, 2 Centre	RD	Pin 5	GY



ELECTRICAL CONNECTION LVIT

Function	Cable output	Connector output	Connection cable K4P	Connector output M12,
+24 VDC	BN	Pin 1	BN	male
Signal	GN	Pin 2	WH	
GND _{Supply}	GY	Pin 3	BU	
	WH	Pin 4	ВК	3 💿 💿 4
Shield	Shield	Housing	Shield	

ELECTRICAL CONNECTION LVIG

Sensor with internal electronics		Sensor for ext	ernal electronio	CS	
Function	Cable output		Function	Cable output	
+24 VDC	BN		Primary 1	RD	secondary 1
	GY		Primary 2	ВК	secondary 2 secondary 1, 2 centr
Signal	GN		Secondary 2	OG	
GND _{Signal}	WH		Secondary 1	YE	
n.c.	YE		Secondary 1, 2 Centre	WH	00000000000000000000000000000000000000
			Shield	Housing	

ELECTRICAL CONNECTION LVISM



ELECTRICAL CONNECTION LVPH

Function	Connector output	Connection cable K5P	Connector output M12,
Primary 1	Pin 1	BN	male
n. c.	Pin 2	WH	15
Secondary 2	Pin 3	BU	
Secondary 1	Pin 4	ВК	2 • •4
Primary 2	Pin 5	GY	3

ELECTRICAL CONNECTION ELECTRONICS LVA

Function	Terminal	Function	Terminal
Shield	1	Secondary 1	8
	2	Primary 1	9
+V	3	n. c.	10
n. c.	4	GND _{Signal}	11
Primary 2	5	Signal	12
Secondary 2	6	Shield	13
Shield	7		

ELECTRICAL CONNECTION CABLE ELECTRONICS LVC

Function	Connector output	Connection cable K4P	Conn
+V	Pin 1	BN	
Signal	Pin 2	WH	
GND _{Supply}	Pin 3	BU	
GND _{Signal}	Pin 4	ВК	

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WARNING NOTICES

- Do not open the device.
- Do not touch the push rod during operation.
- Protect the push rod from ice formation.
- In humid environments, install the sensor with the push rod outlet to the floor, otherwise water may collect inside the sensor.

MAINTENANCE

The devices are maintenance-free. However, if the push rod becomes soiled due to adverse environmental conditions, clean it with a cloth as required.

DECLARATION OF EU-CONFORMITY

	WayCon Positions Mehlbeerenstraße	messtechnik Gmb 4	bH		
	82024 Taufkirchen	/ Germany			
	This is to certify th	at the products			
Classification Series	Inductive Sensors LVDT LVA, LVC, LVIT, LVIG fulfill the current request of the following EU-directives:				
	directive	2014/30/EU 2011/65/EU			
The declaration of authorisation.	conformity loses it	ts validity if the p	product is misused or modified without proper		
			VY		
Taufkirchen, 14.07.2021			Andreas Täger		
			CEO		