

NOTES

All the data reported in this brochure and the data sheet, like linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor $Ic \le 0.1$ mA.

Do NOT use the linear transducer as variable resistance!

When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise above 99% of the voltage level.

MAINTENANCE

It is recommended to keep all sliding parts lubricated at least every 6 months.

DECLARATION OF EC-CONFORMITY

WayCon Positionsmesstechnik GmbH

Mehlbeerenstrasse 4

82024 Taufkirchen / Germany

This is to certify that the products

Classification Linear potentiometer

Series LZW2-IP

fulfill the current request of the following EC-directives:

EMV-directive 2004/108/CE applied harmonized standards:

EN 61000-6-2:2005, EN 61000-6-4:2007, EN 61326-1:2006

The declaration of conformity loses its validity if the product is misused or modified without proper

authorisation.

Taufkirchen, 13.03.2013

Andreas Täger CEO

INSTALLATION GUIDE

Linear Potentiometer Series L7W2-IP

For further information please see the data sheet at www.waycon.biz/products/linear-potentiometers/

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 linear potentiometers. Please read this manual carefully before initial operation!

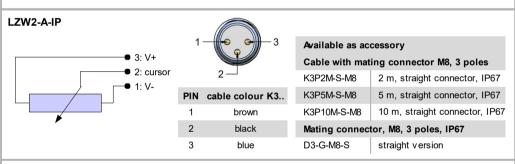
Unpacking and checking:

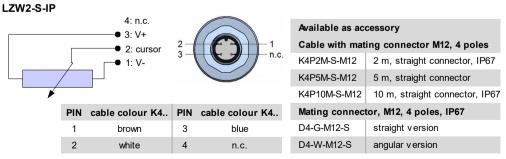
Carefully lift the device out of the box by grabbing the housing. After unpacking the device, check it for any visible damage as a result of rough handling during the shipment. Check the delivery for completeness.

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

ELECTRICAL CONNECTION

Sensor is to be used as voltage divider, using a maximum cursor current of Ic \leq 0.1 μ A (do NOT use the sensor as variable resistance!). Please pay attention to the notes on the last page.





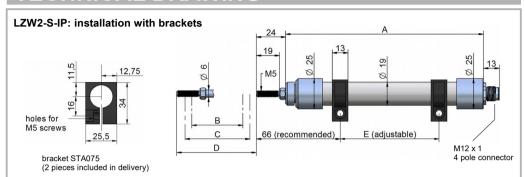


INSTALLATION GUIDE

Linear potentiometer Series LZW2-IP

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TECHNICAL DRAWING



Available as accessory

Cable with mating connector M12, 4 poles, IP67

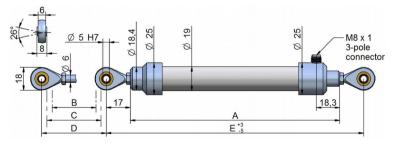
K4P2M-S-M12 2 m, straight connector K4P5M-S-M12 5 m, straight connector

K4P10M-S-M12 10 m, straight connector

Mating connector, M12, 4 poles, IP67

D4-G-M12-S straight version D4-W-M12-S angular version

LZW2-A-IP: installation with rod end bearings



rod end bearing SND019, stainless steel, (included in delivery)

Available as accessory

Cable with mating connector M8, 3 poles, IP67

K3P2M-S-M8 2 m, straight connector K3P5M-S-M8 5 m, straight connector K3P10M-S-M8 10 m, straight connector Mating connector, M8, 3 poles, IP67

D3-G-M8-S straight version



TECHNICAL DATA

Useful electrical stroke B: corresponds to the sensors measurement range

Theoretical electrical stroke C: actual length of the conductive path, that has to be longer than B, in order to get a valid electrical signal at the start and end point of the measurement range.

When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise above 99% of the voltage level.

Measurement range	[mm]	25	50	75	100	125	150	175	200	250	300	
Electrical stroke (B) +1/-0	[mm]	25	50	75	100	125	150	175	200	250	300	
Theoretical electrical Stroke (C) ±1	[mm]	B+1										
Resistance	[kOhm]	1	2	3	4	5	6	7	8	10	12	
Linearity	[±%]	0.2	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	
Max dissipation at 40°C (0 W at 120°C)	[W]	0.8	1.6	2.6	8							
Maximum power supply	[V]	20	40	60								
Mechanical stroke (D)	[mm]			B + 5								
Case length (A) LZW2-A-IP	[mm]	128.5	153.5	178.5	203.5	228.5	253.5	278.5	303.5	353.5	403.5	
Minimum distance rod end bearings (E)	[mm]	163	188	213	238	263	288	313	338	388	438	
Case length (A) LZW2-S-IP	[mm]	106.5	131.5	156.5	181.5	206.5	231.5	256.5	281.5	331.5	381.5	
Recommended distance brackets (E)	[mm]	21	46	71	96	121	146	171	196	246	296	

ACCESSORIES

Spare parts

STA075 bracket for LZW2-S-IP, 1 piece
SND019 rod end bearing w ith M8 external
thread, stainless steel for LZW2-A-IP

PMX-24 Signal Conditioner

- Converts potentiometer signals into analog output signals: 4...20 mA, 0...10 V, 0...5 V, ±10 V, ±5 V
- Input: potentiometer 1...20 kΩ
- · Configurable output
- · DIN-rail-mounting with face-side connector
- For further information please check the PMX-24 data sheet, or contact WayCon



