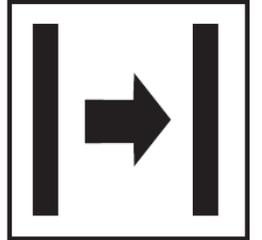


Application Note

Substitute

Series: ODSL 96B M/C.30-S12

1D Optical Distance Sensors ODSL 96B



Remarks:

The Optical Distance Sensor measures the distance to an object with the help of a light beam (laser).

The described product measures with time of flight technology (ToF).

Substitute ODSL 96B M/C6.30-S12

Applicational differences

Discontinued product



ODSL 96B M/C6.30-S12

50114083



Difference to standard ODSL 96 ToF:
100mm min.distance instead of 300mm

Above 6m distance needed:



ODSL 96B M/C6-S12 –
optical distance senso

50109290

Below 300mm min.-distance needed:



ODS10L1.8/LAK-M12
optical distance sensor

50127853

Substitute ODSL 96B M/C6.30-S12

Mechanical adaption



OLD



ODSL 96B M/C6.30-S12:
Cubic housing: M12 plug
Dimension (lxbxh): 90 mm x 70 mm x 30 mm

Housing material:
Metal (coated)

Ambient temperature (operation):
-20°C ... 50 °C



NEW



ODS10L1.8/LAK-M12:
Cubic housing: M12 plug
Dimension (lxbxh): 65 mm x 55 mm x 25 mm

Housing material:
plastic

Ambient temperature (operation):
-40°C ... 50 °C



ODSL 96B M/C6.30-S12:
Cubic housing: M12 plug
Dimension (Ø x L): 90 mm x 70 mm x 30 mm

Housing material:
Metal (coated)

Ambient temperature (operation):
-20°C ... 50 °C

Substitute ODSL 96B M/C6.30-S12

Overview Substitute List



ODSL 96B M/C6.30-S12

Part number	Part reference	Operating principle
50114083	ODSL 96B M/C6.30-S12	ToF measuring sensor



ODSL 96 and ODS10

Part number	Part reference	Differences compared to Series 618
50109290	ODSL 96B M/C6-S12	<ul style="list-style-type: none"> • Display and keyboard for parameterization • 1 digital output • 1 analog output (currency)
50127853	ODS10L1.8/LAK-M12	<ul style="list-style-type: none"> • Display and keyboard for parameterization • IO-Link for process data and parameterization • 1 analog output (currency and voltage) • 1 digital output on Pin4, if IO-Link is not used • 1 multifunctional input

Certifications:



Substitute ODSL 96B M/C6.30-S12



Electrical connection

OLD:

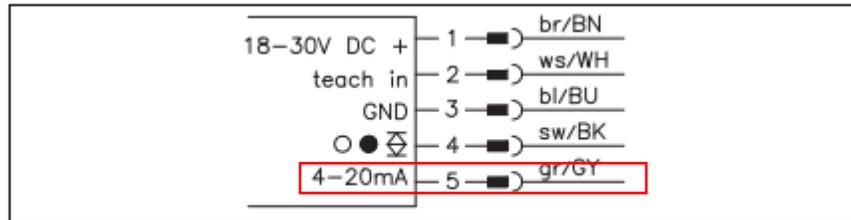


Bild 10.5:Electrical connection ODS... 96B/ODK... 96B M/C...

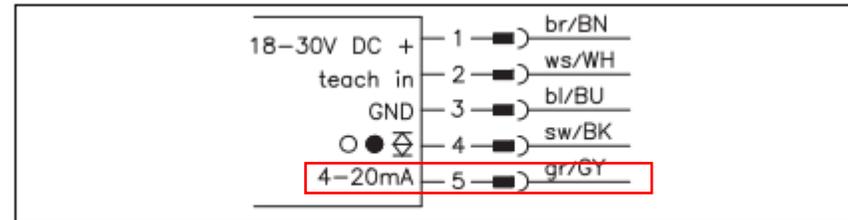


Bild 10.5:Electrical connection ODS... 96B/ODK... 96B M/C...

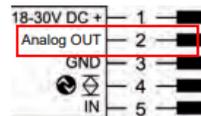


Fig. 6.1: Pin assignment

Pin	Designation	Assignment
1	18-30 V DC +	Supply voltage
2	Analog OUT	Configurable analog output • Current: 4 mA ... 20 mA • Voltage: 1 V ... 10 V, 0 V ... 10 V Factory setting: Current
3	GND	Functional earth
4		IO-Link / switching output 1, push-pull
5	IN	Function of the switching input

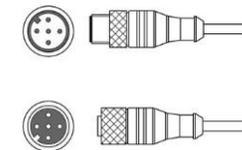
NEW:

ODS10 has the Analog Output on Pin 2 instead of Pin 5 available !!
adapter cable see 50140174



Article description **KDS U-M12-5A-M12-5A-P1-003-25X**

Art. Nr.: **50140174**



Note:

The application note should be read as a recommendation. Additional environmental influences occurring in the real applications must be taken into account before the integration.

Our application experts will assist you during commissioning.

Any questions?



Technical Hotline:

You can find the contact details of our hotline for your country on our webpage:

www.leuze.com under „Contact & Support“



Headquarters

[www. leuze.com](http://www.leuze.com)

Leuze electronic GmbH + Co. KG

In der Braike 1, 73277 Owen, Germany



www.leuze.com

