Converter between analogue signals and IO-Link

IO-Link devices

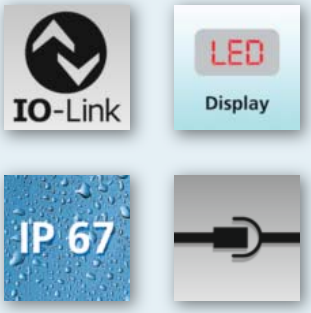
Conversion of analogue signals into IO-Link or vice versa (depending on the version)

Supports analogue values as current or voltage signals (4...20mA or 0...10V)

Industry 4.0 integration for conventional analogue sensors

Easy parameter setting via IO-Link

Digital transmission eliminates the risk of EMC interference



Conversion of analogue signals into IO-Link

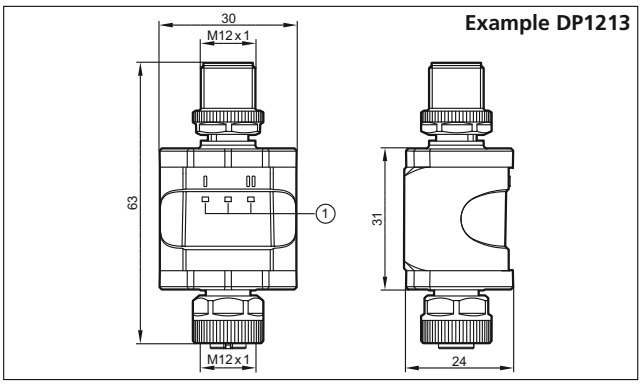
The converters DP2200 and DP1222 can translate analogue sensor signals 4...20 mA or 0...10 V into digital IO-Link communication. Advantages: Digital process transmission is immune to EMC interference. Moreover, with these converters, it is possible to use older analogue sensors in modern Industry 4.0 applications.

Conversion of IO-Link into analogue signals

The converters DP1213 and DP1223 convert measured digital IO-Link values into two independent analogue output signals, depending on the version, either 4...20 mA or 0...10V. Analogue signals are, for example, needed as target values for proportional valves or for frequency inverters for motor control.

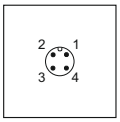
Type	U_b [V DC]	Inputs	Outputs	Display	Protection rating	Ambient temperature [°C]	Order no.
Converter · M12 connector							
	18...30	1 x 4...20 mA	1 x digital / IO-Link	•	IP 67	-25...70	**DP2200**
	18...30	IO-Link	2 x 4...20 mA	–	IP 67	-25...70	**DP1213**
	18...30	2 x 0...10 V	IO-Link	–	IP 67	-25...70	**DP1222**
	18...30	IO-Link	2 x 0...10 V	–	IP 67	-25...70	**DP1223**

Dimensions

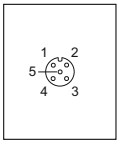


1) LEDs

DP1213 wiring diagram



M12: Connector
Pin 1: L+
Pin 2: Not connected
Pin 3: L-
Pin 4: C/Q IO-Link



M12: Socket
Pin 1: L+
Pin 2: 4...20 mA analogue output 2
Pin 3: L-
Pin 4: 4...20 mA analogue output 1
Pin 5: Not connected

Accessories

Type	Description	Order no.
Installation		
	Mounting clip	**E89208**
IO-Link		
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 Kbits/s)	**E30390**
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	**QA0011**
Connection technology		
	Y-splitter, coolant 1 x M12 connector, 2 x M12 socket, PA, brass	**EBC117**

Typical system configurations