



Systems for condition monitoring
of machines

Very compact, but versatile signal lamp



Systems for signalling and indication



**Highly visible even in bright
lighting conditions**

**Loud buzzer (90 dB) with
selectable melodies**

**High protection rating,
also with buzzer.
Suitable for wet areas**

**Simple installation with
M30 fixing nut**

**Control via IO-Link or digital
inputs**



Flexible indication of machine conditions

On machines, installations or conveyor belts: different signal light colours indicate operating states or technical problems in a clearly visible way.

This innovative signal lamp is a powerful alternative to conventional lamps that have more than one lighting segment. The single lighting segment can glow in up to seven different colours. In addition, permanent light or different blinking modes can be set for each colour.

The lamp can be controlled using IO-Link, but conventional triggering of three different colours via three digital inputs is also possible. This makes it possible to easily replace conventional signal lamps with this signal lamp. Additionally, versions featuring a buzzer and / or a wear-free freely assignable pushbutton are available.



Design	IO-Link interface	Inputs	Buzzer	Feedback button	Protection rating	Order no.
1-segment signal lamp · M12 connectors						
	•	3	–	–	IP 67	DV2120
	•	3	–	•	IP 67	DV2121
	•	3	max. 90 dB	–	IP 65	DV2130
	•	3	max. 90 dB	•	IP 65	DV2131

Three operating modes

The highlight of this signal lamp are the three different operating modes offering maximum versatility. IO-Link offers the highest degree of flexibility for operation and configuration, but using the three digital inputs, the colours can also be selected without using IO-Link. Possible colours are red, green, blue, cyan, magenta, yellow and white.

IO-Link mode

In this mode, the seven colours, the buzzer and the pushbutton can be controlled and configured. The parameter setting (blinking modes, melody, etc.) can be adjusted via the controller at any time. This provides maximum flexibility.

SIO mode RGB

This mode works without IO-Link. The seven colours can be controlled via three digital inputs (RGB) that can be triggered individually or in combination. The buzzer and the pushbutton can be addressed and queried via a further pin of the 5-pole M12 socket.

SIO mode on / off

In this mode, three colours can each be selected via a separate pin. This makes it possible to easily replace conventional lamps that have more than one lighting segment. The buzzer and the pushbutton can be addressed and queried via a further pin of the 5-pole M12 socket.

Parameter setting via IO-Link

If the lamp is operated in the SIO mode, it is possible to operate the lamp without IO-Link. IO-Link is necessary, for example, to configure the required light signal colours. Using ifm's PC software, LR DEVICE, it is easy to configure IO-Link devices and to load and store parameter sets. Moreover, measured values can be clearly visualised and device settings can be conveniently tested.

IO-Link functions (selection):

- Operating modes
- 7 selectable colours
- Permanent light, 3 blinking modes, 3 flashing modes
- 7 different buzzer melodies

Common technical data		
Operating voltage	[V DC]	18...30
Current consumption	[mA]	≤ 90 RMS (400 mA for 50 ms)
Input current on the IO-Link pin	[mA]	typ. 6.6 (24 V DC, high signal)
Connection		M12 connector, 5 poles
Ambient temperature	[°C]	-25...50

Accessories

Type	Description	Order no.
------	-------------	-----------

IO-Link

	IO-Link master with PROFINET interface	AL1100
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011

Assembly

	Adapter for pole mounting, 22 mm / Ø 22 mm	E89080
	Standard bracket for pole mounting	E89060
	Wall bracket for pole mounting	E89061
	Spacer pole 100 mm	E89065
	Spacer pole 300 mm	E89066
	Spacer pole 800 mm	E89067

Connection technology

	Connection cable, M12, 5 m black, PUR cable, 5 poles	EVC059
	Socket, M12, 5 m black, PUR cable, 5 poles	EVC071
	Connection cable, M12, 5 m, orange, PVC cable, 5-pole	EVT062
	Socket, M12, 5 m, orange, PVC cable, 5-pole	EVT010