XECRO
sensing ahead

LED SIGNAL DOME

RELIABLE USER INTERACTION
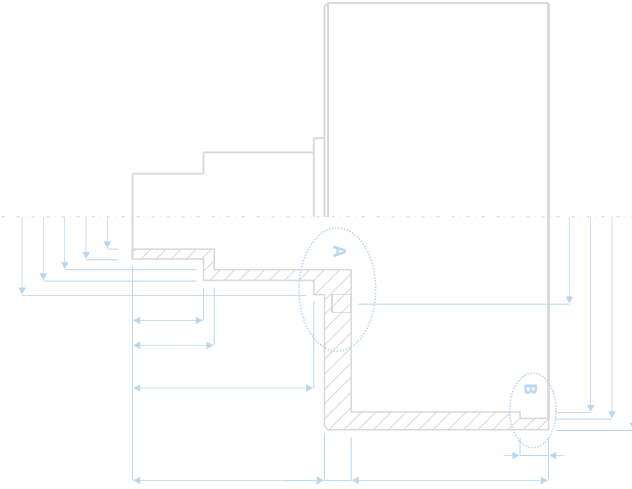starts in the design process of the machine

Use ◈ IO-Link
Universal · Smart · Easy

CANopen

Modbus

THREE COLOR LED SIGNAL DOME

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IO-Link · CANopen · Modbus

Features

Modern compact and space optimized design

Very bright optical status indication

High efficient vibration proof LED technology

Consumes up to 90% less power than incandescent bulbs

Several blink patterns per color, that are easily programmable

100% water and oil tight - IP67

Break-proof polycarbonate cover and metal housing

Suitable for use in food-related and pharmaceutical applications

Fits into standard Ø22.5 mm mounting holes

Available with industrial standard connector M12

Direct and low-current inputs as well as several bus protocols

IO-Link
Universal · Smart · Easy

CANopen

Modbus

The setting button is located behind the hole on the bottom of the SigDome (Picture 1).

Use a small tool (Ø 2 mm), which comes with the device to press and hold the teach-button for more than 1 second. For your convenience, the brightness is dimmed during programming.

While in programming mode, press the button to select the color you want to change. Each color you select shows its current blink-pattern, regardless of its correspondig input status.

To change the blink pattern of the selected color, press and hold the setting button for more than 1 second. Press the button to switch from one pattern to another and more than 1 second to finish programming.

To program another color, start the procedure from the beginning.

| permanent	
slow	
fast	
very fast	
two blips	
fast blips	
very fast blips	
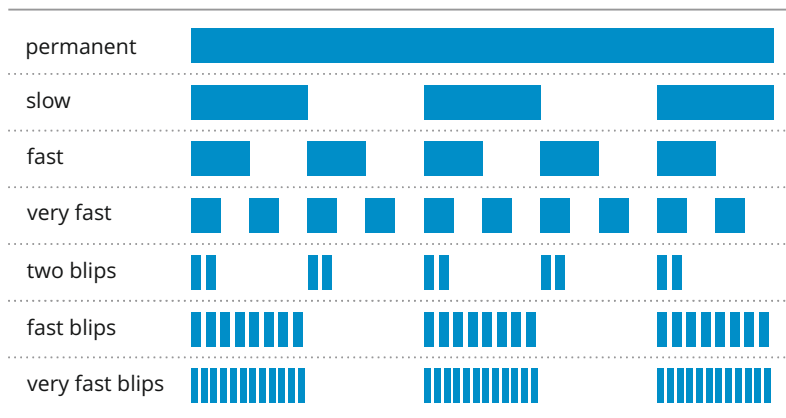
Load Input

Each color is driven through its corresponding input. The color selection output needs to be able to source the full current. If more than one color is engaged at the same time, then the Signal-Dome begins to cycle resp. alternate these colors. During cycling, no blink pattern will be applied.

1/+	brown / braun
3/+	black / schwarz
2/+	white / weiß
4/-	blue / blau
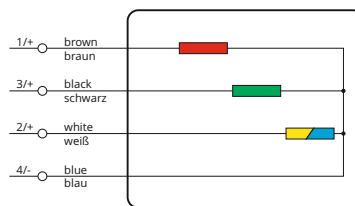
Low Current Input

The Signal-Dome is supplied by the brown wire only. The two auxiliary inputs form a binary register which selects the color shown.
The inputs are 3 VDC tolerant.

3/I	black / schwarz
2/I	white / weiß
1/+	brown / braun
4/-	blue / blau
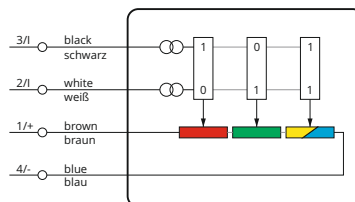
Alternatively, several bus-interfaces are also available. These allow the direct selection of the blink patterns as well as the brightness.
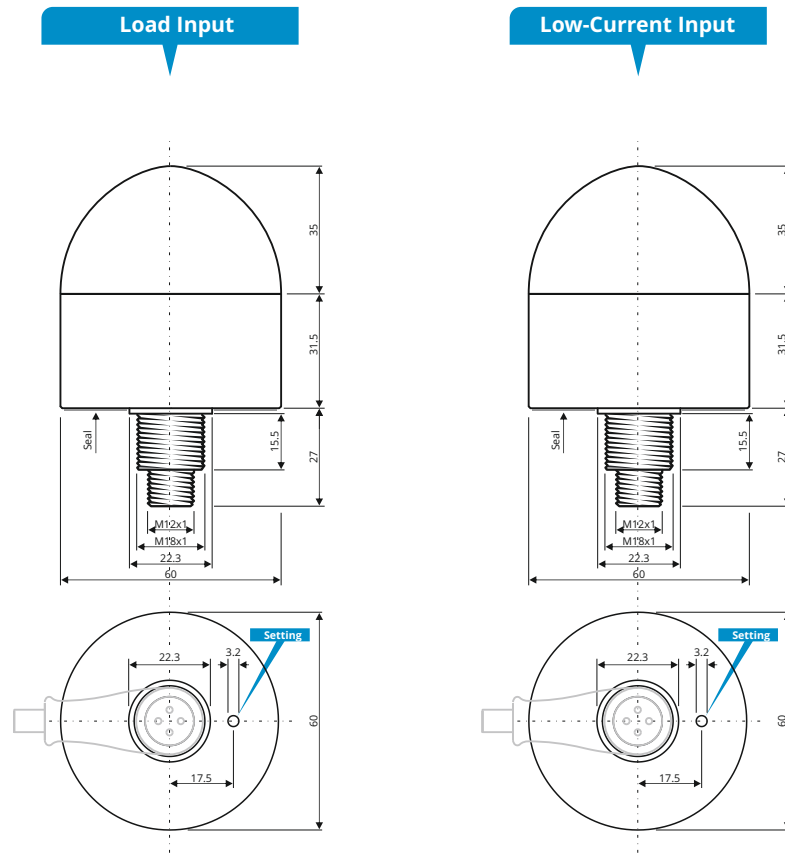
ALUMINUM

Load Input

Low-Current Input

TECHNICAL DATA

	Load Input	Low-Current Input
Operating Voltage	12 ... 30 V_{DC}	12 ... 30 V_{DC}
Reverse Polarity Protection	built-in	built-in
Power Consumption	≈ 1.2 W	≈ 1.2 W [2]
Maximum Inrush Current	< 200 mA	< 200 mA [2]
Auxiliary Inputs	-	3 ... 30 V_{DC}, < 3 mA
Protocol Layer	-	-
Rcmd. max. Frequency	25 Hz	25 Hz
Indicator Type	High Efficient LED	High Efficient LED
Wave Length, Red	625 nm	625 nm
Wave Length, Green	525 nm	525 nm
Wave Length, Blue	470 nm	470 nm
Wave Length, Yellow	592 nm	592 nm
Operating Temperature	-40... +50 °C / -40... 122 °F	-40... +50 °C / -40... 122 °F
Protection Class	IP 67	IP 67
Bulb Material	Polycarbonate	Polycarbonate
Housing Material	Aluminum, black anodized	Aluminum, black anodized

[2] refers to the main supply input only

Aluminum

ORDER CODES

		Load Input	Low-Current Input
Red-Green-Yellow	| Connector M12	SD60A-PW-RGY-N12	SD60A-LC-RGY-N12
Red-Green-Yellow	| Cable 2 m	SD60A-PW-RGY-N2P	SD60A-LC-RGY-N2P
Red-Green-Blue	| Connector M12	SD60A-PW-RGB-N12	SD60A-LC-RGB-N12
Red-Green-Blue	| Cable 2 m	SD60A-PW-RGB-N2P	SD60A-LC-RGB-N2P
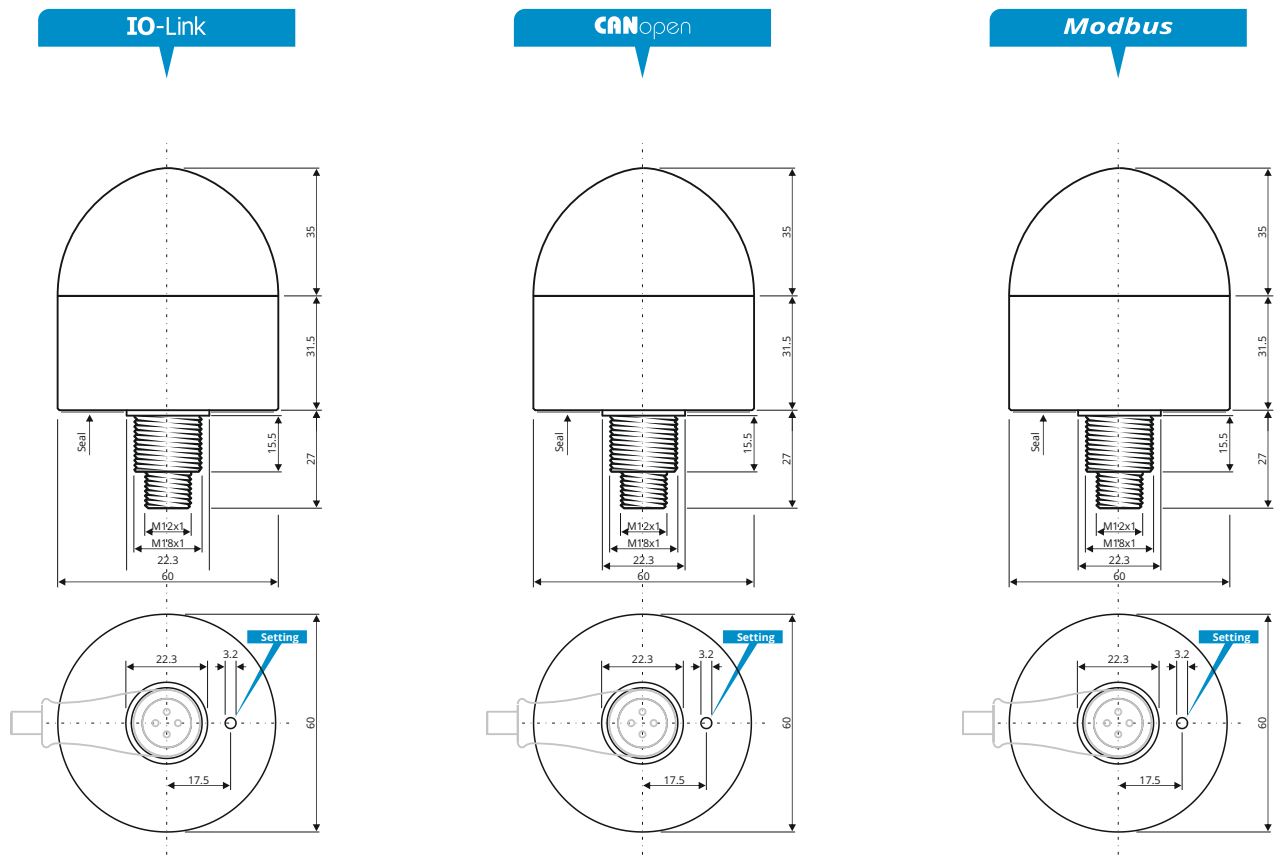
Drawing labels (each column): 35, 31.5, 27, 15.5, Seal, M12x1, M18x1, 22.3, 60, Setting, 3.2, 17.5

IO-Link	**CANopen**	**Modbus**
12 ... 30 VDC	12 ... 30 VDC	12 ... 30 VDC
built-in	built-in	built-in
≈ 1.2 W	≈ 1.2 W [*]	≈ 1.2 W [*]
< 200 mA	< 200 mA [*]	< 200 mA [*]
IO-Link transceiver	isolated CAN transceiver	isolated RS-485 transceiver
IODD V1.1	CANopen	Modbus RTU
25 Hz	25 Hz	25 Hz
High Efficient LED	High Efficient LED	High Efficient LED
R-G-Y: 625 nm / 525 nm / 470 nm / 592 nm — R-G-B	R-G-Y: 625 nm / 525 nm / 470 nm / 592 nm — R-G-B	R-G-Y: 625 nm / 525 nm / 470 nm / 592 nm — R-G-B
-40... +50 °C / -40... 122 °F	-40... +50 °C / -40... 122 °F	-40... +50 °C / -40... 122 °F
IP 67	IP 67	IP 67
Polycarbonate	Polycarbonate	Polycarbonate
Aluminum, black anodized	Aluminum, black anodized	Aluminum, black anodized
[*] refers to the main supply input only	[*] refers to the main supply input only	[*] refers to the main supply input only

SD60A-IO-RGY-N12	SD60A-CO-RGY-N12	SD60A-MB-RGY-N12
SD60A-IO-RGY-N2P	SD60A-CO-RGY-N2P	SD60A-MB-RGY-N2P
SD60A-IO-RGB-N12	SD60A-CO-RGB-N12	SD60A-MB-RGB-N12
SD60A-IO-RGB-N2P	SD60A-CO-RGB-N2P	SD60A-MB-RGB-N2P

Load Input

Low-Current Input

STAINLESS

SD60

TECHNICAL DATA

	Load Input	Low-Current Input
Operating Voltage	12 ... 30 V$_{DC}$	12 ... 30 V$_{DC}$
Reverse Polarity Protection	built-in	built-in
Power Consumption	≈ 1.2 W	≈ 1.2 W [2]
Maximum Inrush Current	< 200 mA	< 200 mA [2]
Auxiliary Inputs	-	3 ... 30 V$_{DC}$, < 3 mA
Protocol Layer	-	-
Rcmd. max. Frequency	25 Hz	25 Hz
Indicator Type	High Efficient LED	High Efficient LED
Wave Length, Red	625 nm	625 nm
Wave Length, Green	525 nm	525 nm
Wave Length, Blue	470 nm	470 nm
Wave Length, Yellow	592 nm	592 nm
Operating Temperature	-40... +50 °C / -40... 122 °F	-40... +50 °C / -40... 122 °F
Protection Class	IP 67	IP 67
Bulb Material	Polycarbonate	Polycarbonate
Housing Material	Stainless Steel, 1.4404	Stainless Steel, 1.4404

[2] refers to the main supply input only

Stainless Steel

ORDER CODES

Red-Green-Yellow	Connector M12	SD60S-PW-RGY-N12	SD60S-LC-RGY-N12
Red-Green-Yellow	Cable 2 m	SD60S-PW-RGY-N2P	SD60S-LC-RGY-N2P
Red-Green-Blue	Connector M12	SD60S-PW-RGB-N12	SD60S-LC-RGB-N12
Red-Green-Blue	Cable 2 m	SD60S-PW-RGB-N2P	SD60S-LC-RGB-N2P
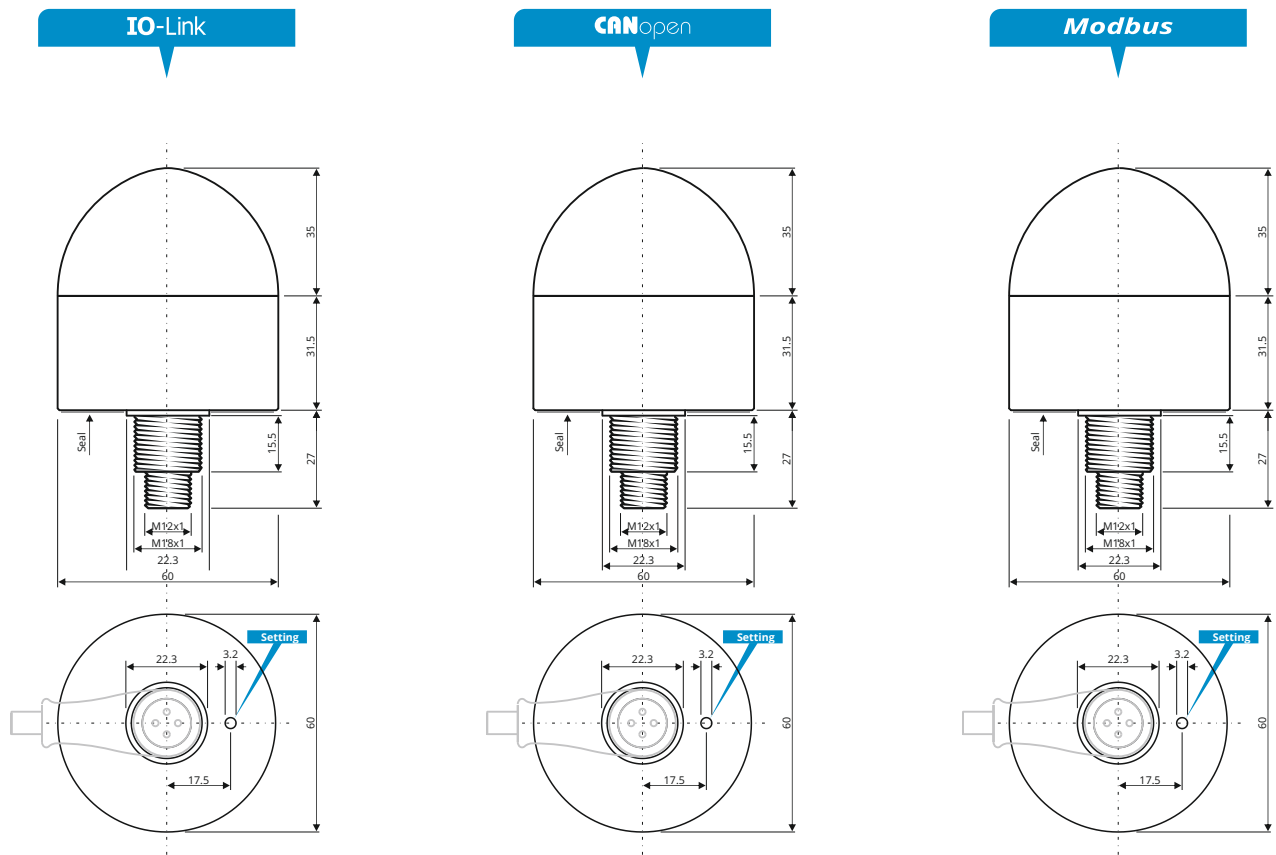
IO-Link	CANopen	Modbus

IO-Link	**CAN**open	*Modbus*
12 ... 30 V$_{DC}$	12 ... 30 V$_{DC}$	12 ... 30 V$_{DC}$
built-in	built-in	built-in
≈ 1.2 W	≈ 1.2 W [*]	≈ 1.2 W [*]
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IO-Link transceiver	isolated CAN transceiver	isolated RS-485 transceiver
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-40... +50 °C / -40... 122 °F	-40... +50 °C / -40... 122 °F	-40... +50 °C / -40... 122 °F
IP 67	IP 67	IP 67
Polycarbonate	Polycarbonate	Polycarbonate
Stainless Steel, 1.4404	Stainless Steel, 1.4404	Stainless Steel, 1.4404
[*] refers to the main supply input only	[*] refers to the main supply input only	[*] refers to the main supply input only

IO-Link	CANopen	Modbus
SD60S-IO-RGY-N12	SD60S-CO-RGY-N12	SD60S-MB-RGY-N12
SD60S-IO-RGY-N2P	SD60S-CO-RGY-N2P	SD60S-MB-RGY-N2P
SD60S-IO-RGB-N12	SD60S-CO-RGB-N12	SD60S-MB-RGB-N12
SD60S-IO-RGB-N2P	SD60S-CO-RGB-N2P	SD60S-MB-RGB-N2P

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