



IO-LINK

PLUG. SET. PLAY.

RAFI

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WHAT IS IO-Link

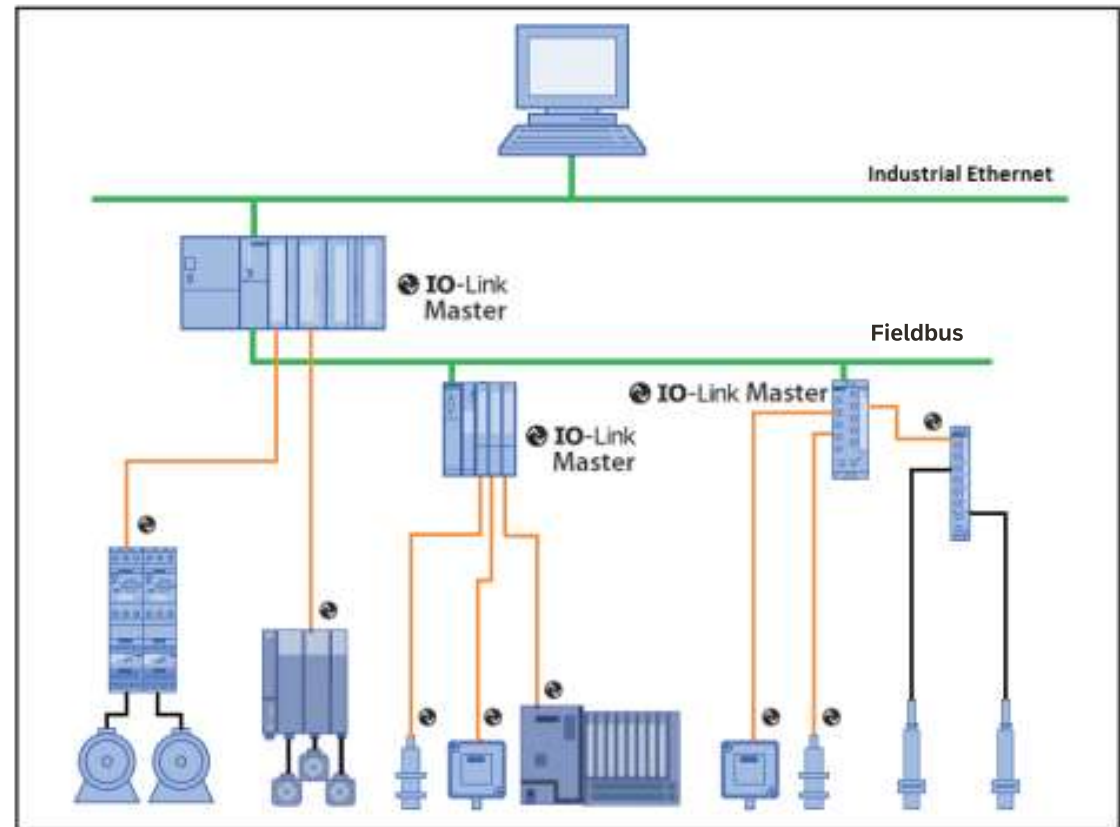
**Communication interface between fieldbuses
and sensors / actuators**

Fieldbus independent Point-to-point connection

Master for different fieldbuses available

IO-Link System contains of:

- IO-Link Master
- IO-Link Device (sensors, valves, E-BOX, ...)
- Unshielded 3- or 5-pole standard cables
- Engineering tool for project planning and parameterization of IO-Link



AUTOMATION PYRAMIDE

Architecture of automation systems

RAFI → focus on field level

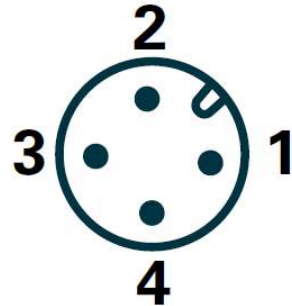
IO-Link is a bus-independent interface



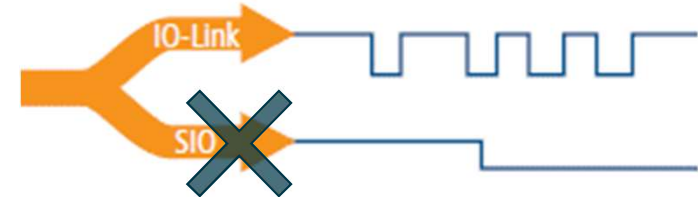
SIMPLE PLUG & PLAY CONNECTION

Benefits:

- Fewer wiring errors
- No need for tools
- M12 4-poles, a-coded
- Standard sensor cables
- wires without shielding up to 20 metres



1	L+
2	n.c.
3	L-
4	C/Q



SIO not necessary acc.
IO-Link Specification



IO-Link PROTOCOL

Operating modes master

IO-Link

Digital Input

Digital Output

Transmission rates

IO-Link Specification 1.1

1. COM1: 4,8 kbit/s

2. **COM2: 38,4 kbit/s**

3. COM3: 230,4 kbit/s

Automatic adjustment of Device

Cyclic data channel

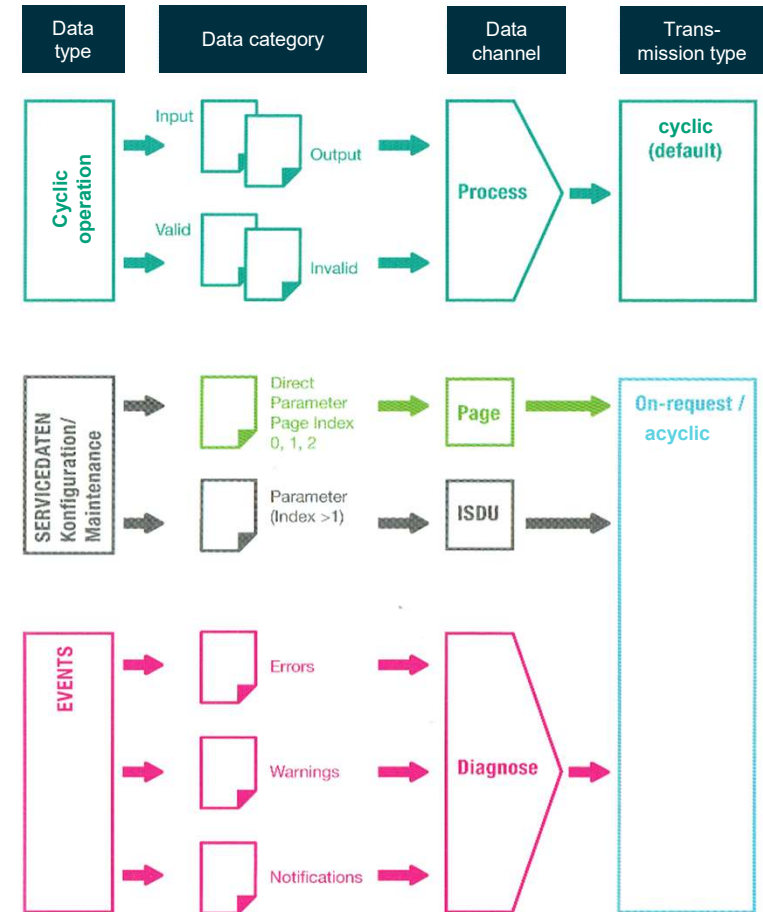
Process data IN(sensor) and OUT(actuator)
Validity of process data

Acyclic data channel

Parameter data
Diagnostic data

IODD

IO Device Description (zip-file)
→ IODDfinder, eCatalog, website



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CONTROLLING



Use
IO-Link
Universal · Smart · Easy

SIGNALLING



E-BOX IO-LINK



Lights

color illuminated (RGB)

Connection

standard M12 connector, 4-pole a-coded
24V +/- 20%

IO-Link

Port Class A
Interface and System Specification 1.1.2

Environment

-30°C to +60°C
IP 65

Assembly

By mounting clip on aluminum profile
Mounting clip screwable onto other surfaces

PARAMETERIZATION OF E-BOX



Night mode

different brightness levels
25% / 50% / 75% / 100%

Flexible color selection

5 standard colors
3 freely selectable RGB colors

4 different blink modes

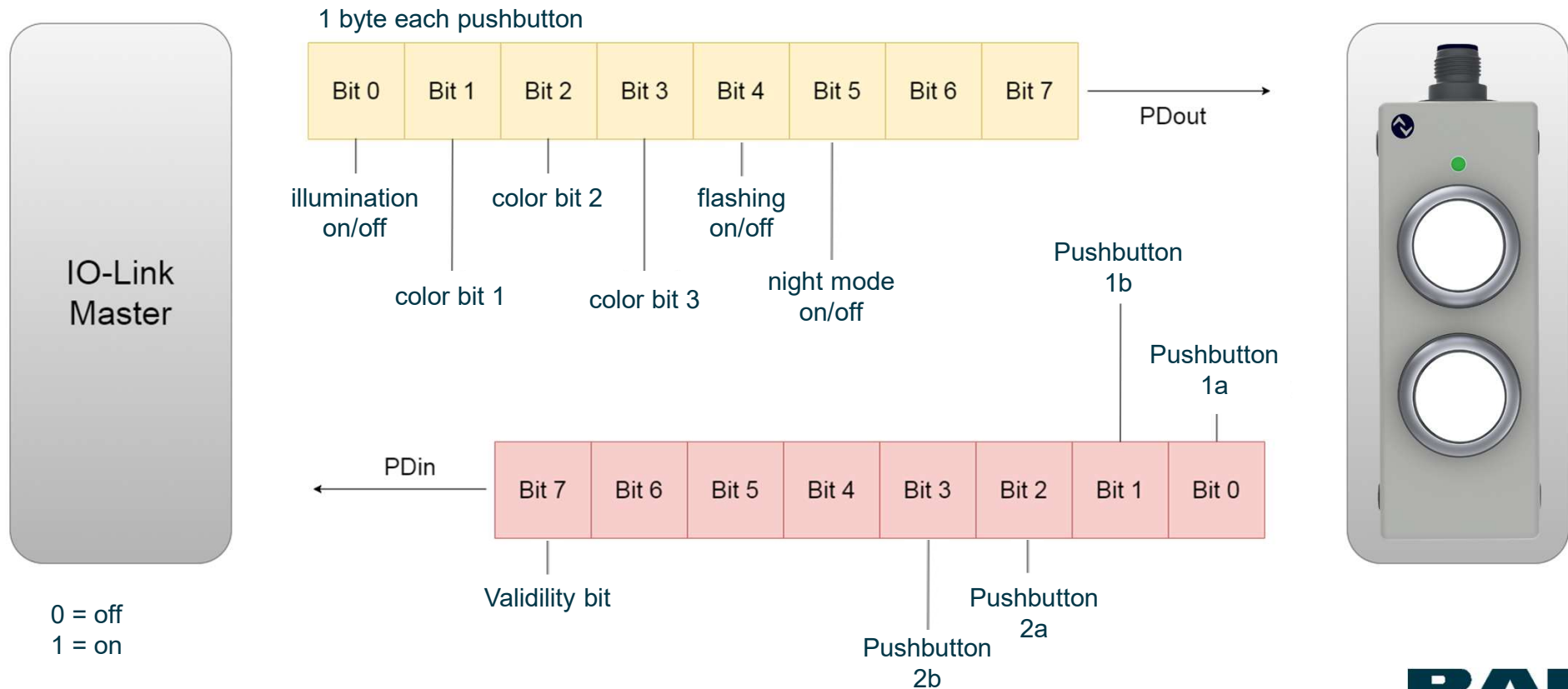
1 Hz 50% Duty Cycle
2 Hz 50% Duty Cycle
1 Hz 80% Duty Cycle
2 Hz 80% Duty Cycle

Diagnose

Via the controller

FUNCTIONALITY E-BOX WITH IO-Link

PROCESS DATA VIEW



TILTED DIAMOND+ IO-LINK



Lights

color illuminated (RGB)

Connection

standard M12 connector, 4-pole a-coded
24V +/- 20%

IO-Link

Port Class A

Interface and System Specification 1.1.2

Environment

-30°C to +60°C

IP 66

Assembly

Screw connection from below

Optional with mounting tube and foot

PARAMETERIZATION OF TILTED DIAMOND⁺



Night mode

different brightness levels
25% / 50% / 75% / 100%

Flexible color selection

5 standard colors
3 freely selectable RGB colors

8 different blink modes

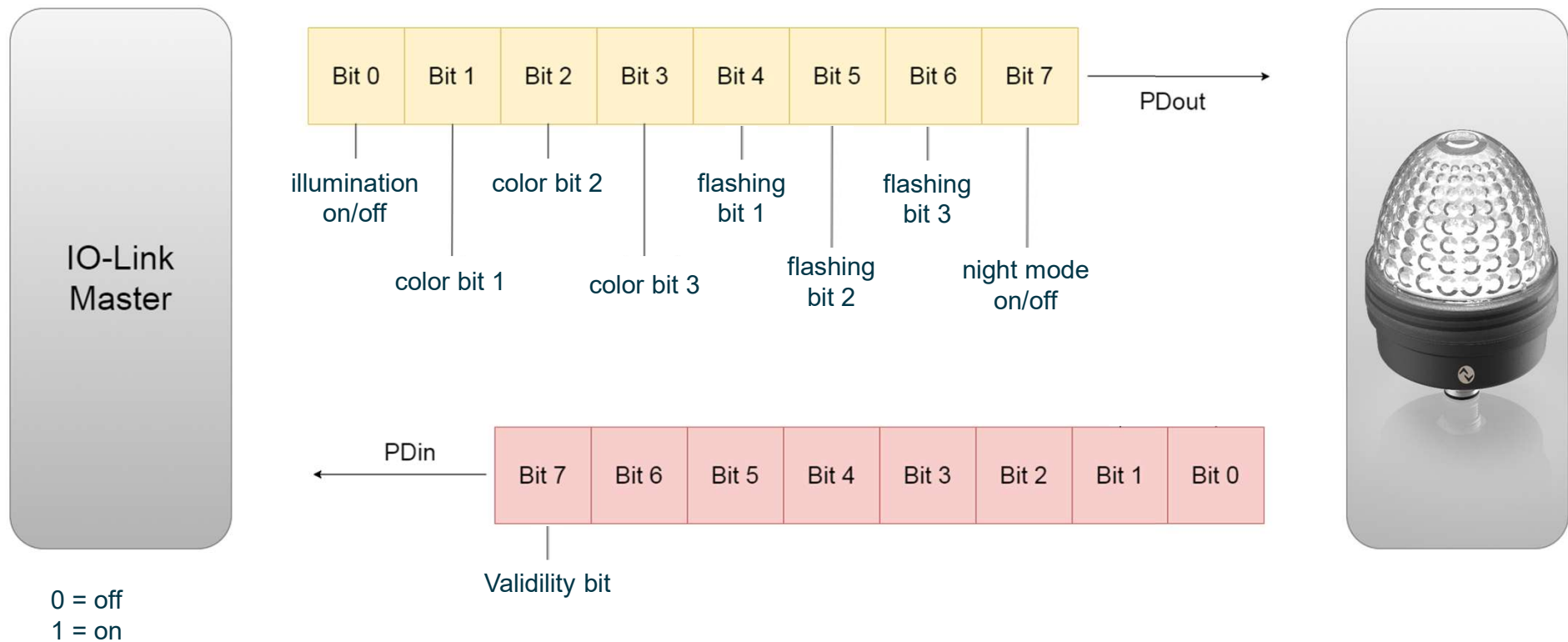
Constant light
Slow flashing (1 Hz 50% duty cycle)
Medium flashing (2 Hz 50% duty cycle)
Fast flashing (4 Hz 50% duty cycle)
Flash
Double Flash
Slow Sine
Fast Sine

Diagnose

Via the controller

FUNCTIONALITY TILTED DIAMOND+ WITH IO-Link

PROCESS DATA VIEW



THE INCLINED DIAMOND

4 LEDs
192 Diamonds
3,264 Areas
13,056 Light refractions



ASSEMBLY & ACCESSORIES

FLEXLAB labeling sheets

Printed and unprinted available
Suitable for office laser printers



Mounting tubes and foot

Different lengths available
100mm / 250mm / 400mm



**WE CONNECT YOUR
HUMAN ACTIONS
WITH IO-LINK.**

**QUICKLY INTEGRATED
AND INDIVIDUALLY
PARAMETERIZED.**



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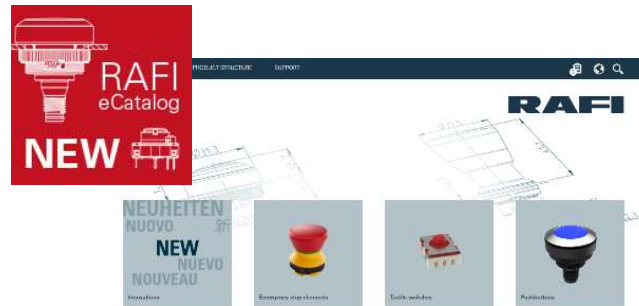
MORE INFORMATION

PDF



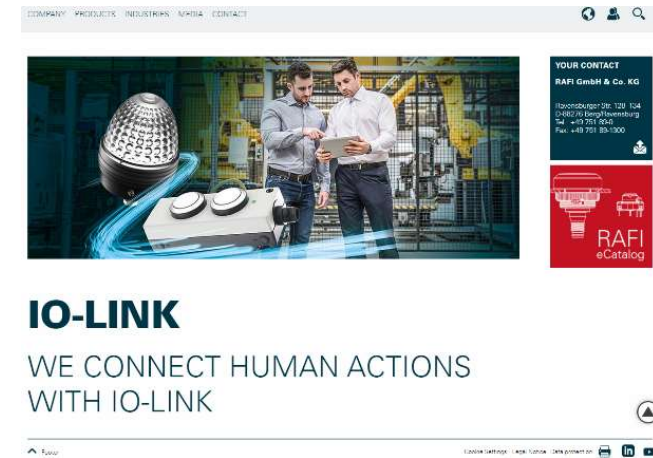
[RAFI.DE/IO-LINK](https://rafi.de/io-link)

Technical data



[COMPONENTS.RAFI.DE](https://components.rafi.de)

Website



[RAFI.DE/IO-LINK](https://rafi.de/io-link)

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