



MACHINE ILLUMINATION AND SIGNAL LIGHTS MB / SB

MAXIMUM EFFICIENCY

 **di-soric**

MACHINE ILLUMINATION

MB-N / MB-NP

MAXIMUM EFFICIENCY IN MACHINES.

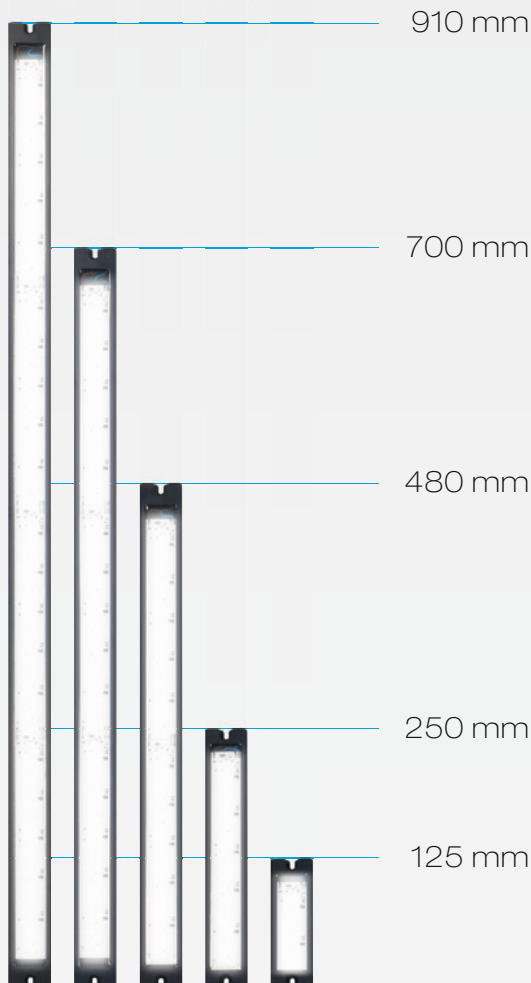
The extremely powerful and quick-to-integrate MB-N LED machine lighting allows ongoing processes in machines to be observed with accuracy as well as rapid retooling and maintenance – guaranteeing maximum efficiency.



Casing in Aluminium, nature or black anodized



PROTECTED version that can be used in even the harshest application conditions



Efficient machine lighting - extreme light intensity and very easy to install

- Comprehensive range of lengths: 250 / 480 / 700 / 910 mm often means that the lights don't have to be cascaded
- Compact design with width of just 40 mm allows lighting to be used anywhere
- Mounted using set of magnets rather than time-consuming drilling and screwing
- Swivel-mounted retaining bracket for dazzle-free installation
- Casing in Aluminium, nature or black anodized

Very long life thanks to tested quality

- Extremely durable thanks to intelligent thermal management and trigger input
- Outstanding energy efficiency
- Maximum robustness from shock- and vibration-resistant casing with protection class IP 67
- Quality German product

Very good color reproduction for maximum safety at the workplace

- Very good color reproduction guarantees safety at the workplace in accordance with DIN EN 12464-1 (color rendering index 85, color temperature 5000 K)
- New high-performance LEDs with very high light intensity ensure reliable and even illumination
- Energy-saving system light yield of >100 lumens/watt
- Very homogeneous wide-angle illumination of 120°

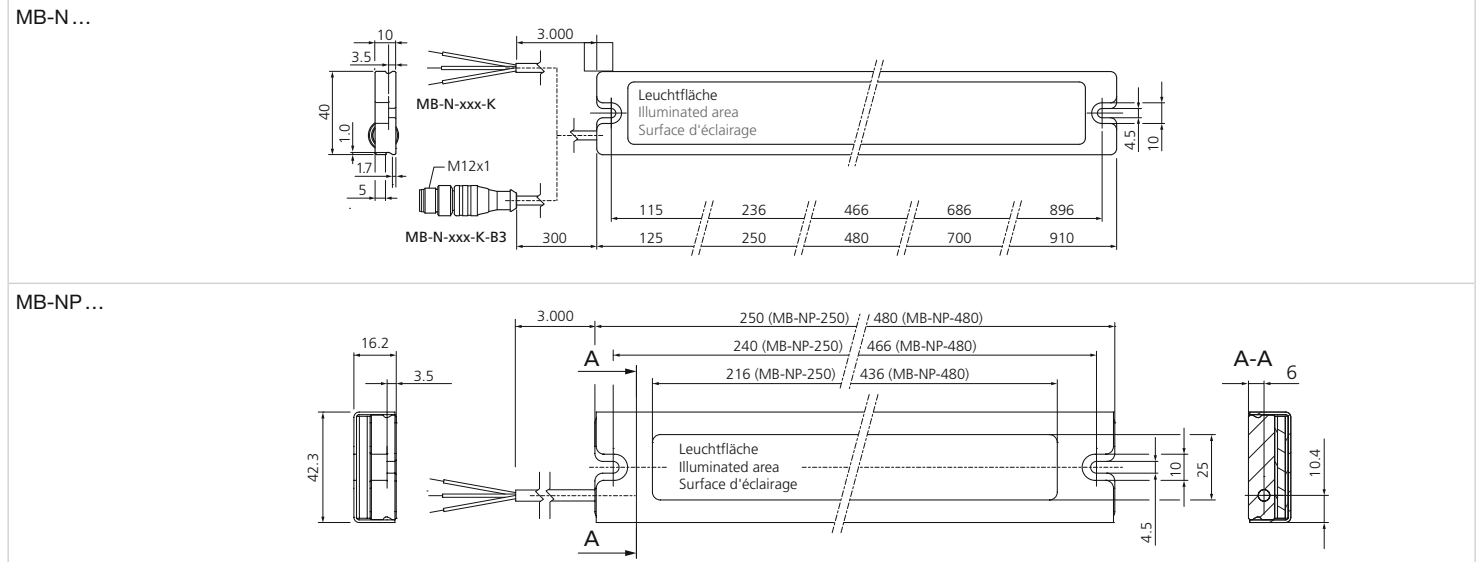
TECHNICAL DATA

MB-N / MB-NP

Technical data (typ.)	+20 °C, 24 V DC	Connection diagram
Light color	white 5000 K (LED)	
Angle of reflected beam	typ. 120°	
Color rendering index CRI	85	
Service voltage	24 VDC ± 5 %	
Shock/vibration loading	30g / 10 – 55Hz, 1mm	
Trigger input low level	0 ... ≤ 5,0 V	
Trigger input high level	≥ 8.0 ... 25.2 V	
Trigger PWM Signal: T _{on} / T _{off}	< 50 / < 50 µs	
Inverse polarity protection	yes	
Ambient temperature	-20 ... +40 °C	
Protection class	IP67	BN = Brown BK = Black BU = Blue
Protection degree	III, Operation on protective low voltage	
Risk group (DIN EN 62471)	free	
Casing material	Aluminium, black anodized (MB-N-xx0-K... / MB-NP...) / Aluminium, nature anodized (MB-N-xx1-K...)	
Material	V2A (front frame MB-NP...)	
Illuminated area	PU crystal clear (MB-N...) / Safety glass ESG, diffuse (window MB-NP...)	

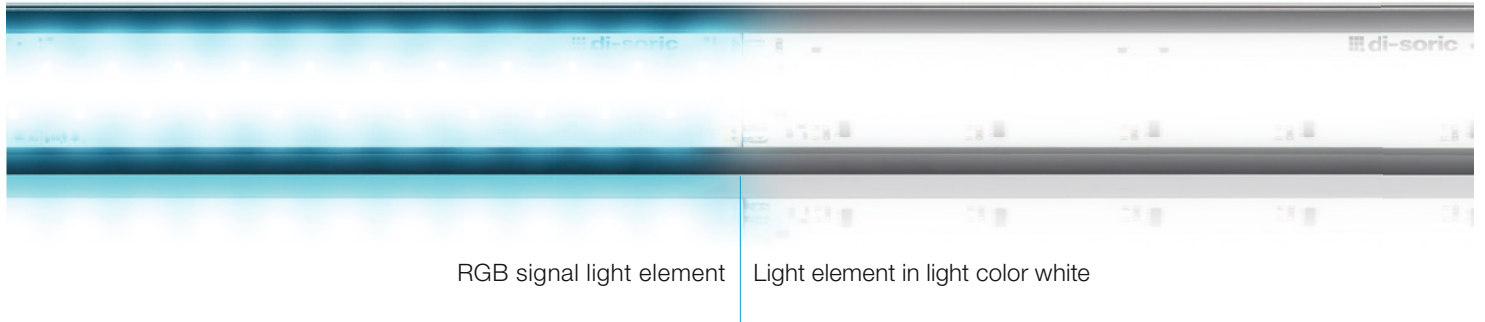
	Illuminated area (mm)	Internal power consumption at 24 V	Power consumption at 24 V	Illumination intensity at 0,5 m	Illumination intensity bei 1,0 m	Luminous flux	Cable 300 mm with connector M12, 3-poled flying leads	Cable, 3000 mm, flying leads	Weight (without packaging)	Maximal cable length at cross section at 0,34 mm ² (3x) / min. 24 V DC	Aluminium, black anodized	Aluminium, nature anodized
	30 x 95	190 mA	4.6 W	720 lx	220 lx	440 lm	■	115 g	22 m	MB-N-125-K-B3	MB-N-126-K-B3	
							■	175 g	25 m	MB-N-125-K	MB-N-126-K	
	30 x 220	450 mA	10.8 W	1800 lx	530 lx	1100 lm	■	210 g	22 m	MB-N-250-K-B3	MB-N-251-K-B3	
							■	260 g	25 m	MB-N-250-K	MB-N-251-K	
	30 x 440	900 mA	21.6 W	3200 lx	1000 lx	2200 lm	■	390 g	10 m	MB-N-480-K-B3	MB-N-481-K-B3	
							■	440 g	13 m	MB-N-480-K	MB-N-481-K	
	30 x 660	1350 mA	32.4 W	3900 lx	1300 lx	3300 lm	■	550 g	5 m	MB-N-700-K-B3	MB-N-701-K-B3	
							■	600 g	8 m	MB-N-700-K	MB-N-701-K	
	30 x 870	1800 mA	43.2 W	4400 lx	1600 lx	4400 lm	■	700 g	3 m	MB-N-910-K-B3	MB-N-911-K-B3	
							■	750 g	6 m	MB-N-910-K	MB-N-911-K	
	30 x 220	450 mA	10.8 W	1400 lx	430 lx	900 lm	■	410 g	25 m	MB-NP-250-K		
	30 x 440	900 mA	21.6 W	2600 lx	800 lx	1700 lm	■	700 g	13 m	MB-NP-480-K		

Drawing (mm, typ.)



MACHINE ILLUMINATION WITH SIGNAL LIGHT ELEMENT AND IO-LINK MB-RGBW

The new MB-RGBW offers a combination of the standard-compliant, high-quality white light provided by our machine lights and the display of machine status using a freely configurable RGB light element.



Highlights

- High light intensity thanks to state-of-the art power LEDs
- Light functions are freely configurable via IO-Link – fully functional, even without IO-Link – and can be used immediately, “out of the box”, by selecting color presets
- The best light quality, as always
- High color reproduction guarantees safety at the workplace in accordance with health and safety requirements
- Large illuminated RGB area for optimum display of machine status
- Long life, thanks to intelligent thermal management
- All accessories in the MB-N family can be used

IO-Link Features

- The RGB light element’s individual light functions are easy to configure:
 - Virtually infinite number of possible colors
 - Individual brightness levels
 - Different flashing patterns can be assigned to individual colors
- Very easy to maintain
 - Devices can be swapped easily, without manual intervention or specialized knowledge, because data is stored in the IO-Link 1.1 master
- Reduced costs
 - Just one device for every requirement so less inventory is needed

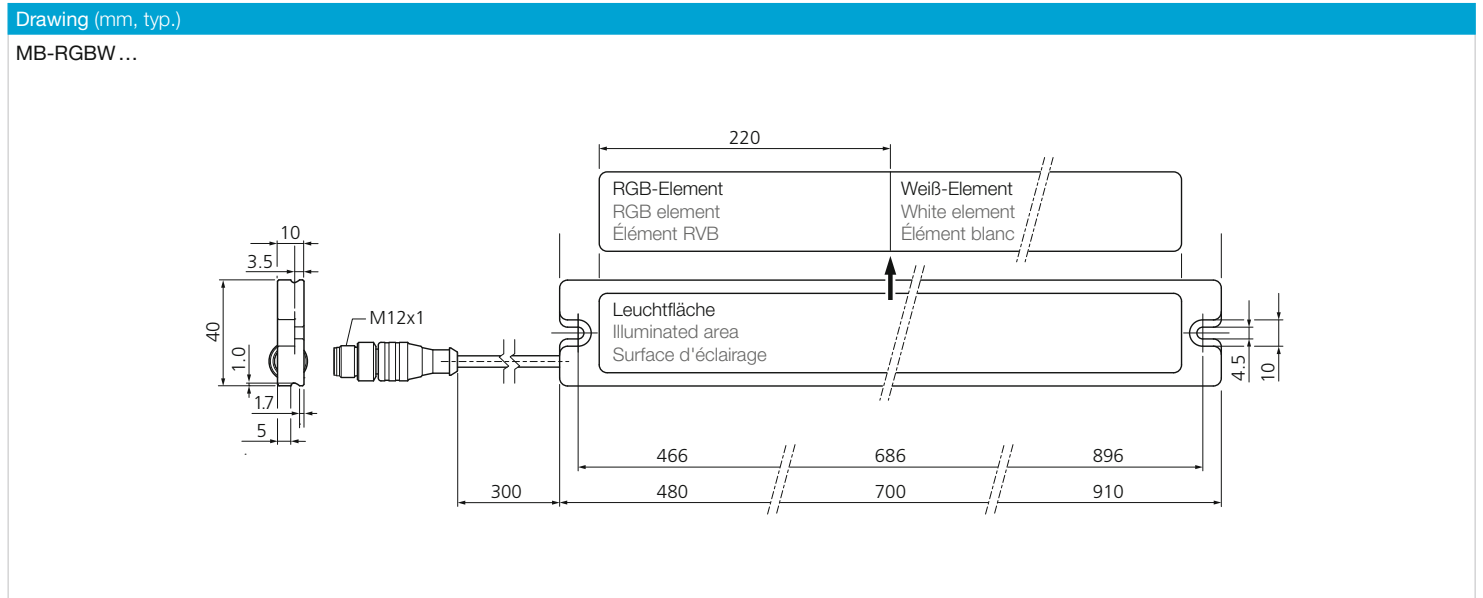
The MB-RGBW provides exceptional illumination for machines, with high-quality white light to give the best color reproduction and also a powerful RGB light element, which remains fully functional even when IO-Link is not in use.

TECHNICAL DATA

MB-RGBW

Technical data (typ.)	+20 °C, 24 VDC	Connection diagram																																
Operating modes	RGB: constant, blink, flash																																	
Light color	White (5000 K), RGB + custom																																	
Beam angle per LED	typ. 120°																																	
Light intensity can be adjusted	RGB, 10 ... 100 %, by IO-Link																																	
Service voltage	24 VDC ± 5 % , (Supply Class 2)																																	
Shock-/vibration load	30g / 10 – 55 Hz, 1 mm																																	
Trigger input low level	0 ... ≤ 5.0 V	<table border="1"> <thead> <tr> <th colspan="4">Presets / Factory settings</th> </tr> <tr> <th>TRIG1</th> <th>TRIG2</th> <th>TRIG3</th> <th>Farbe/Color</th> </tr> </thead> <tbody> <tr> <td>Lo</td> <td>Lo</td> <td></td> <td>RGB: aus/off</td> </tr> <tr> <td>Hi</td> <td>Lo</td> <td></td> <td>RGB: rot/red</td> </tr> <tr> <td>Lo</td> <td>Hi</td> <td></td> <td>RGB: grün/green</td> </tr> <tr> <td>Hi</td> <td>Hi</td> <td></td> <td>RGB: gelb/yellow</td> </tr> <tr> <td></td> <td></td> <td>Lo</td> <td>WH: aus/off</td> </tr> <tr> <td></td> <td></td> <td>Hi</td> <td>WH: ein/on</td> </tr> </tbody> </table> <p>BN = Braun WH = White BK = Schwarz</p> <p>BU = Blau GY = Grau</p>	Presets / Factory settings				TRIG1	TRIG2	TRIG3	Farbe/Color	Lo	Lo		RGB: aus/off	Hi	Lo		RGB: rot/red	Lo	Hi		RGB: grün/green	Hi	Hi		RGB: gelb/yellow			Lo	WH: aus/off			Hi	WH: ein/on
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			Hi	WH: ein/on																														
Trigger input high level	≥ 8.0 ... 25.2 V																																	
Trigger input	3 color presets: selectable by Trigger 1 + 2, white: selectable by Trigger 3																																	
Interface	IO-Link V1.1, COM2 (38,4kBd), 2300 µs, for parameterization																																	
Inverse polarity protection	yes																																	
Ambient temperature	0 ... +40 °C																																	
Protection class	IP67																																	
Protection degree	III, Operation on protective low voltage																																	
Risk group (DIN EN 62471)	free																																	
Casing material	Aluminium black anodized																																	
Material	PU, crystal clear (Window)																																	
Illuminated area	Cable 300 mm with connector M12, 5-poled																																	

	Illuminated area (mm)	Internal power consumption at 24 V	Power at 24 V	Illumination intensity at 0,5 m	Illumination intensity bei 1,0 m	Luminous flux	Weight (without packaging)	Maximal cable length at cross section at 5 x 0,34 mm ² (AWG 22) / min. 24 VDC	Product-ID
	30 x 440	max. 650 mA	max. 15.6 W	1800 lx	530 lx	1100 lm	390 g	10 m	MB-RGBW-480-K-B5
	30 x 660	max. 1100 mA	max. 26.4 W	3200 lx	1000 lx	2200 lm	550 g	7,5 m	MB-RGBW-700-K-B5
	30 x 870	max. 1520 mA	max. 36.5 W	3900 lx	1300 lx	3300 lm	700 g	5 m	MB-RGBW-910-K-B5

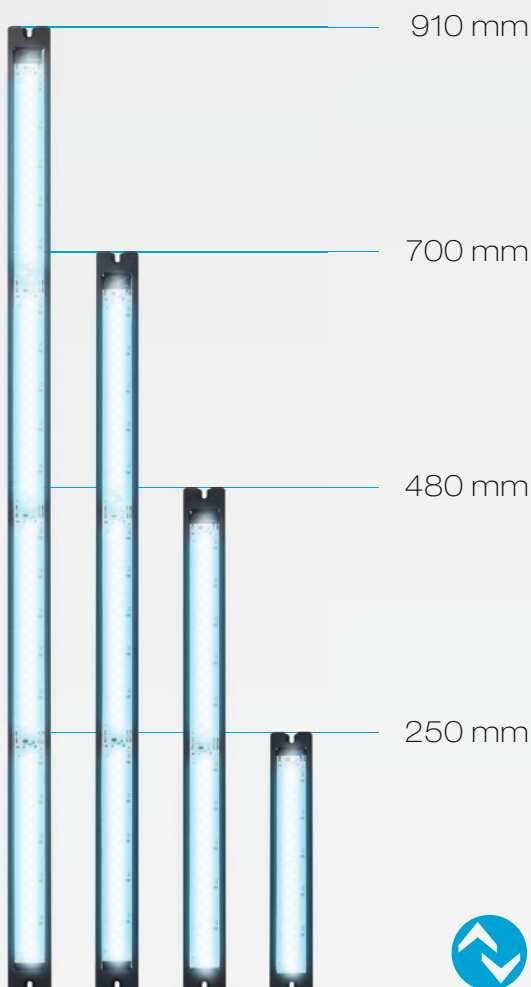


SIGNAL LIGHTS WITH IO-LINK

SB-RGB

With its pure color signal lights, the SB-RGB clearly displays the status of machines or machine segments in vibrant, unmistakable colors.

Ready for use right away – and can be customized to suit every requirement.



Highlights

- Full-area RGB lighting with state-of-the-art power LEDs
- Light functions are freely configurable via IO-Link – fully functional, even without IO-Link – and can be used immediately, “out of the box”, by selecting color presets
- Optimal display of the machine status thanks to the large light field
- Long life, thanks to intelligent thermal management
- All accessories in the MB-N family can be used
- Signal the status of machines so that it is visible from afar

IO-Link Features

- The individual light functions are easy to configure:
 - Virtually infinite number of possible colors
 - Individual brightness levels
 - Different flashing patterns can be assigned to individual colors
- Very easy to maintain
 - Devices can be swapped easily, without manual intervention or specialized knowledge, because data is stored in the IO-Link 1.1 master
- Reduced costs
 - Just one device for every requirement so less inventory is needed

The SB-RGB functions superbly as a multi-color status light system to indicate operating statuses for access control.



TECHNICAL DATA

SB-RGB

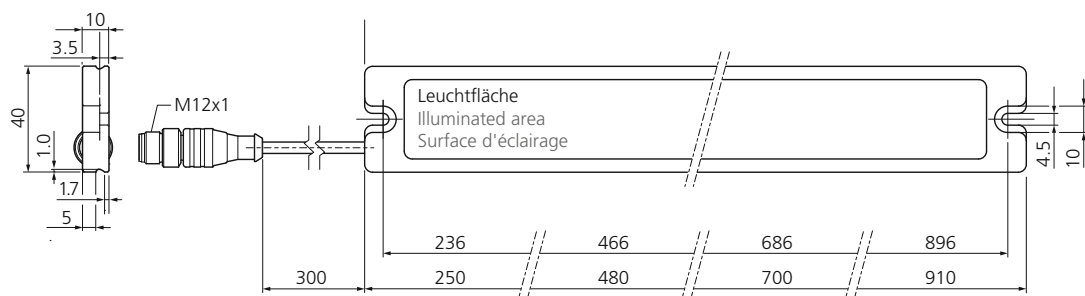
Technical data (typ.)	+20 °C, 24 VDC	Connection diagram
Operating modes	constant, blink, flash	<p>BN = Brown WH = White BK = Black</p> <p>BU = Blue GY = Gray</p>
Light color	RGB + custom	
Beam angle per LED	typ. 120°	
Light intensity can be adjusted	10 ... 100 %, by IO-Link	
Service voltage	24 VDC ± 5 % , (Supply Class 2)	
Shock-/vibration load	30g / 10 – 55 Hz, 1 mm	
Trigger input low level	0 ... ≤ 5.0 V	
Trigger input high level	≥ 8.0 ... 25.2 V	
Trigger input	3 color presets: selectable by Trigger 1 + 2	
Interface	IO-Link V1.1, COM2 (38.4 kBd), 2300 μs, for parameterization	
Inverse polarity protection	yes	
Ambient temperature	0 ... +40 °C	
Protection class	IP67	
Protection degree	III, Operation on protective low voltage	
Risk group (DIN EN 62471)	free	
Casing material	Aluminium black anodized	
Material	PU, crystal clear (Window)	
Connection	Cable 300 mm with connector M12, 5-poled	

Presets / Factory settings		
Trigger 1	Trigger 2	Farbe / Color
Lo	Lo	aus / off
Hi	Lo	rot / red
Lo	Hi	grün / green
Hi	Hi	gelb / yellow

	Illuminated area (mm)	Internal power consumption at 24 V	Power consumption at 24 V	Weight (without packaging)	Maximal cable length at cross section at 5 x 0.34 mm ² (AWG 22) / min. 24 VDC	Product-ID
	30 x 220	195 mA RMS / 390 mA Peak	4.7 W	210 g	20 m	SB-RGB-250-K-B5
	30 x 440	385 mA RMS / 750 mA Peak	9.2 W	390 g	10 m	SB-RGB-480-K-B5
	30 x 660	565 mA RMS / 1100 mA Peak	13.5 W	550 g	7.5 m	SB-RGB-700-K-B5
	30 x 870	745 mA RMS / 1400 mA Peak	17.8 W	700 g	5 m	SB-RGB-910-K-B5

Drawing (mm, typ.)

SB-RGB...

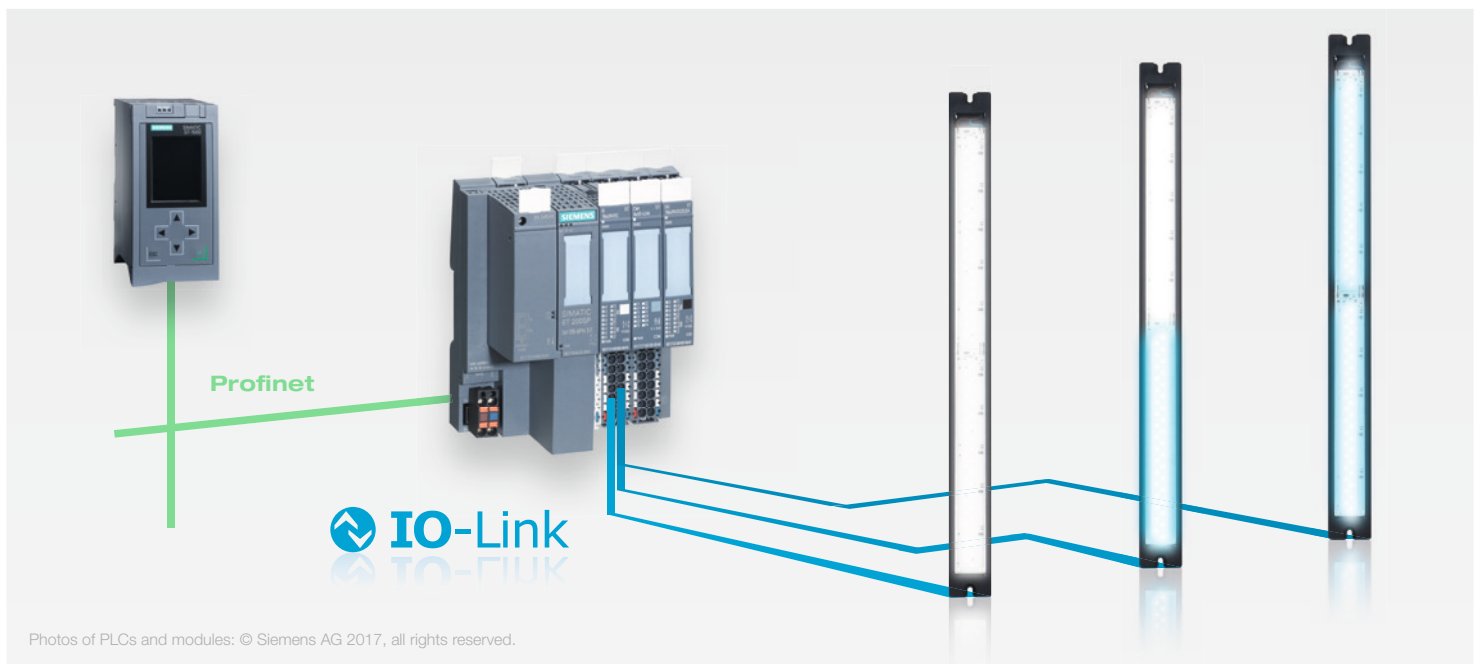


SMART THANKS TO IO-LINK. SAVE TIME AND MONEY.

GET STRAIGHT TO THE POINT.

IO-Link provides a point-to-point connection within any network, fieldbus or backplane bus. The IO-Link master can be installed either directly in the field or in the control cabinet.

The international IO-Link standard (in accordance with IEC 61131-9) is now regarded as an **“Enabler for Industry 4.0”**



4 REASONS TO CHOOSE OUR ILLUMINATION AND LIGHTS WITH IO-LINK.

- 1 CUSTOMIZED LIGHTING**
 - Above and beyond the preset colors, you can customize colors individually in IO-Link. The machine and products can be illuminated with freely selectable colors and brightness levels.

- 2 READY FOR USE OUT OF THE BOX - TEACH WITH IO-LINK - WORK INDEPENDENTLY**
 - Ready to run, thanks to 3 color presets (red, yellow, green)
 - IO-Link provides simple, intuitive functionality for custom color configurations
 - Once the new lighting functions have been defined, simply disconnect the IO-Link master and work independently

- 3 UNCOMPLICATED MAINTENANCE**
 - Devices can be swapped easily, without manual intervention or specialized knowledge, because data is stored in the IO-Link 1.1 master

- 4 REDUCED COSTS**
 - Thanks to a virtually infinite number of possible combinations of colors, brightness levels and flash patterns, just one device can meet every individual requirement, so
 - less inventory is needed.

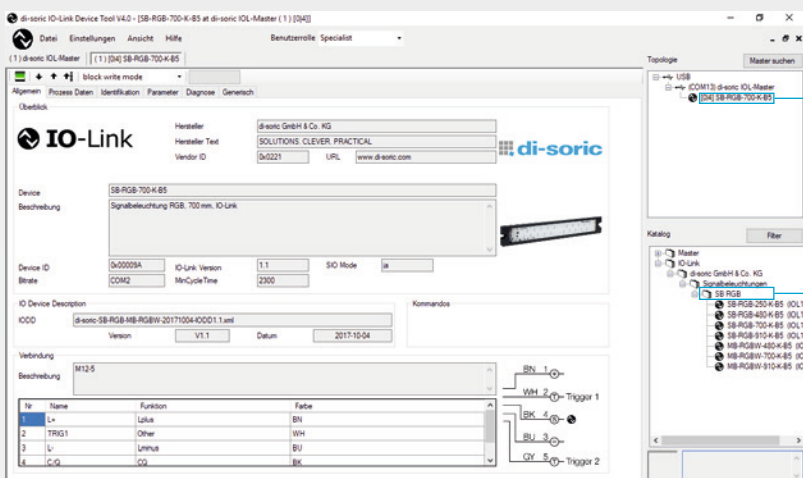
IO-LINK

IODD – IO DEVICE DESCRIPTION

THE IODD

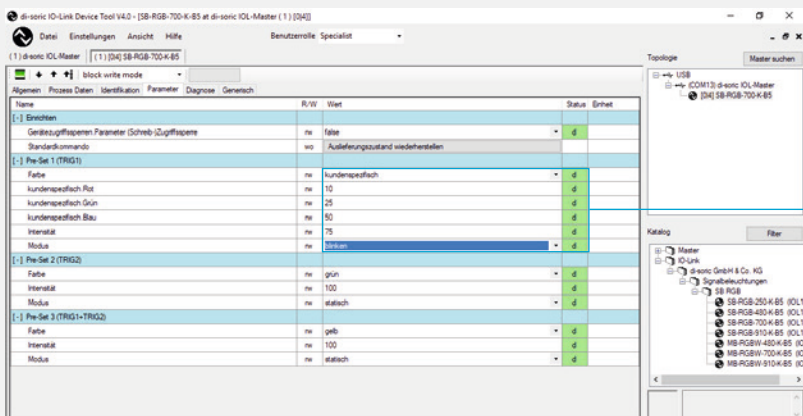
describes sensors and actuators. It holds information to identify devices, device parameters, process and diagnostics data, communications properties and the structure of user interfaces in engineering tools.

At di-soric, three user levels (operator, maintenance and specialist) are implemented. Each level contains the appropriate range of services.



The di-soric IO-Link master automatically detects which lighting device is connected

Just one IODD is needed to control all di-soric RGB(W) lights



The color, brightness and flashing patterns can be configured for the 3 color channels

SIMPLE ADJUSTMENT OF LIGHT COLOR(S), BRIGHTNESS AND FLASHING PATTERNS WITH SB-RGB AND MB-RGBW:

- Load the IODD, which can be downloaded from our SB/MB product website, into our IO-Link device tool software (which can be downloaded from the IO-Link master website)
- Connect the lighting to the IO-Link master
- Open the “Parameters” menu in the IO-Link device tool
- Select/define the colors for the three available “Color slots” in the lighting memory
- Upload the data from the IO-Link device tool to the lighting memory
- Disconnect the lighting device
- All the colors you have just configured are now available

IOL-MASTER – IO-LINK DEVICE TOOL


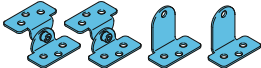
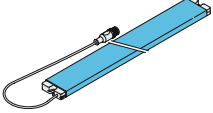
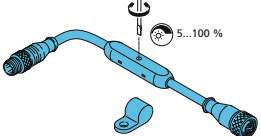

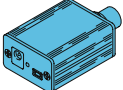


- Universal IO-Link Master with computer software for devices with IODD specification 1.0.1 and 1.1
- Status LED for IO-Link and SIO mode
- M12-connection for devices

ACCESSORIES

MB/SB

Magnetic holding set MB-MHS-2	Mounting brackets set BW-MB	Diffusor MB-DIF-250	Diffusor MB-DIF-480	Diffusor MB-DIF-700	Diffusor MB-DIF-910	PWM Dimmer MB-DIM 2	Connector BK-Z-12	IOL-MASTER IO-Link Device Tool	Product-ID
■	■	■				■			MB-N-25x-K-B3
■	■	■				■	■		MB-N-25x-K
■	■		■			■			MB-N-48x-K-B3
■	■		■			■	■		MB-N-48x-K
■	■			■		■			MB-N-70x-K-B3
■	■			■		■	■		MB-N-70x-K
■	■				■	■			MB-N-91x-K-B3
■	■				■	■	■		MB-N-91x-K
■	■					■	■		MB-NP-250-K
■	■					■	■		MB-NP-480-K
■	■		■					■	MB-RGBW-480-K-B5
■	■			■				■	MB-RGBW-700-K-B5
■	■				■			■	MB-RGBW-910-K-B5
■	■	■						■	SB-RGB-250-K-B5
■	■		■					■	SB-RGB-480-K-B5
■	■			■				■	SB-RGB-700-K-B5
■	■				■			■	SB-RGB-910-K-B5

Details																																
Magnetic holding set 2 	Set consists of: 2 high power magnets with M4 thread,, 2 Allen screws M4x10, 2 washers	MB-MHS-2																														
Mounting brackets 	Set consists of: Short limb (2x2), long limb (2x1) and the necessary mounting material	BW-MB																														
Diffusor For glare-free working, simple and fast retro- fittable 	<table border="1"> <tr> <td>Length</td> <td>250mm</td> <td>MB-DIF-250</td> </tr> <tr> <td></td> <td>480mm</td> <td>MB-DIF-480</td> </tr> <tr> <td></td> <td>700mm</td> <td>MB-DIF-700</td> </tr> <tr> <td></td> <td>910mm</td> <td>MB-DIF-910</td> </tr> </table>	Length	250mm	MB-DIF-250		480mm	MB-DIF-480		700mm	MB-DIF-700		910mm	MB-DIF-910																			
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PWM-Dimmer  <ul style="list-style-type: none"> Perfect adaption of the lighting intensity to the requirements Simple handling and commissioning by "plug & play" Efficient PWM dimming procedure For all machine illuminations with connector High maximum rating Trigger signal looped 	<table border="1"> <tr> <td>Service voltage</td> <td>24 VDC ± 5 %</td> <td></td> </tr> <tr> <td>Input</td> <td>Trigger (Pin 4)</td> <td></td> </tr> <tr> <td>Operating principle</td> <td>Pulse-Width Modulation</td> <td></td> </tr> <tr> <td>Maximum rating</td> <td>max. 4.000 mA</td> <td></td> </tr> <tr> <td>Adjustment illumination intensity</td> <td>5 ... 100 %</td> <td></td> </tr> <tr> <td>Protection class</td> <td>IP67</td> <td></td> </tr> <tr> <td>Protection degree</td> <td>III</td> <td></td> </tr> <tr> <td>Shock-/vibration load</td> <td>30g/ 10 -55Hz, 1 mm</td> <td></td> </tr> <tr> <td>Ambient temperature</td> <td>-20 ... +70 °C</td> <td></td> </tr> <tr> <td>Casing material</td> <td>Plastics</td> <td>MB-DIM 2</td> </tr> </table>	Service voltage	24 VDC ± 5 %		Input	Trigger (Pin 4)		Operating principle	Pulse-Width Modulation		Maximum rating	max. 4.000 mA		Adjustment illumination intensity	5 ... 100 %		Protection class	IP67		Protection degree	III		Shock-/vibration load	30g/ 10 -55Hz, 1 mm		Ambient temperature	-20 ... +70 °C		Casing material	Plastics	MB-DIM 2	
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Connector M12  For mounting the PWM dimmer to a machine illumination in the cable version	<table border="1"> <tr> <td>Ø Cable</td> <td>4.0 ... 6.0mm</td> <td></td> </tr> <tr> <td>Braids</td> <td>0.75 mm²</td> <td></td> </tr> <tr> <td>Protection class</td> <td>IP67</td> <td></td> </tr> <tr> <td>Connection sensor side</td> <td>Socket, M12x1, 4-poled</td> <td>BK-Z-12</td> </tr> </table>	Ø Cable	4.0 ... 6.0mm		Braids	0.75 mm ²		Protection class	IP67		Connection sensor side	Socket, M12x1, 4-poled	BK-Z-12																			
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IOL-Master IO-Link Device Tool  <ul style="list-style-type: none"> Universal IO-Link Master with computer software For devices with IODD specification 1.0.1 and 1.1 Status LED for IO-Link and SIO mode M12-connection for devices 	<table border="1"> <tr> <td>Power supply</td> <td>5 V / 500 mA (PC USB), 24 V / 80 mA (IO-Link Device from USB), 24 V / 1 A (IO-Link device from power supply)</td> <td></td> </tr> <tr> <td>Communication</td> <td>IO-Link Spezifikation V 1.1, IO-Link Port Class A</td> <td></td> </tr> <tr> <td>Connection</td> <td>USB 2.0, (Mini USB B)</td> <td></td> </tr> <tr> <td>Protection class</td> <td>IP 20</td> <td></td> </tr> <tr> <td>Protection degree</td> <td>III, operation on protective low voltage</td> <td>IOL-Master</td> </tr> </table>	Power supply	5 V / 500 mA (PC USB), 24 V / 80 mA (IO-Link Device from USB), 24 V / 1 A (IO-Link device from power supply)		Communication	IO-Link Spezifikation V 1.1, IO-Link Port Class A		Connection	USB 2.0, (Mini USB B)		Protection class	IP 20		Protection degree	III, operation on protective low voltage	IOL-Master																
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Protection degree	III, operation on protective low voltage	IOL-Master																														

TCO* / TOTAL COST CONSIDERATION MACHINE ILLUMINATION

„How much does it cost to illuminate the interior of a machine at 1 000 lx for 30 000 h*?“

	High-voltage halogen lamps in lights	Fluorescent light lamps in lights	di-soric LED MB-N-250-K-B3 Machine illumination
Power	80 W	40 W incl. power loss in conventional ballast	12 W incl. power loss in power supply unit
Required light intensity	1 000 lx	1 000 lx	1 000 lx
Service life	2 000 h	8 000 h taking into account the service life of the starter	> 30 000 h
Initial installation + number of replacements	15.4	3.75	1
Illumination efficiency throughout service life	52 %	49 %	95 %
Individual product costs	6.00 €	10.00 € incl. starter	119.00 €
Replacement costs for initial installation and in the event of defects	25.00 €	25.00 €	25.00 €
Costs/kWh	0.15 €	0.15 €	0.15 €
CO ₂ emission after 30 000 h	960 kg CO ₂	480 kg CO ₂	144 kg CO ₂
TCO after 30 000 h	1 169.23 €	498.60 €	201.79 €
Payback period of a di-soric LED illumination after substitution	3 500 h	approx. 8 000 h	



COST-EFFECTIVE.

Using di-soric MB-N LED machine lighting, you can achieve the following:

- Up to 60% savings on operating costs compared to fluorescent tubes
- Up to 83% savings on operating costs compared to halogen lamps

ENVIRONMENTALLY FRIENDLY AND COMPATIBLE WITH WORKPLACES.

- Zero mercury – zero hazardous waste – zero disposal costs
- No risk of damaging eyes due to infrared or ultraviolet radiation
- Maximum light-quality – work compliant with employer liability insurance associations in Germany and with the DIN EN 12464-1 standard

SUPPORTS PROCESSES.

- Highly efficient – products or machines are not heated by radiation
- Long service-life – no need to open the machine to replace lamps
- Flexible – a wide variety of accessories ensure reliable, glare-free installation

*TCO: Total Cost of Ownership. 30 000 h correspond to approx. 5 years of moderate use.

SOLUTIONS. CLEVER. PRACTICAL.

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