



# Signaling and Illumination

from Murrelektronik

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# DISTINCT SIGNALS AND PERFECT ILLUMINATION IN DAYLIGHT QUALITY

Murrelektronik's signal towers and signal lights ensure clear signaling in machines and plant equipment. The machine lights allow for perfect illumination in daylight quality. The Murrelektronik solutions for these applications offer first-class advantages:

- LED technology ensures a **high light yield** and guarantees **long service life** along low energy consumption
- For all of its product versions, Murrelektronik offers **plug-in solutions**, such as M8 or M12, so that installation goes **as quickly as possible**.
- The compactness of the lights and signal towers means they can be used **in narrow or tight spaces**. After all, space in machine or plant equipment is usually a rare commodity.



## Modlight Pro LED signal towers

The signal towers are characterized by maximum flexibility in color selection and color composition. The elements of the signal towers with diameters of 50 and 70 millimeters are connected by bayonet locks, making assembly easy and quick. The signal towers can be flexibly mounted.

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## Comlight56 LED signal lights

The signal lights provide clear signals. With a diameter of only 56 millimeters, the compact luminaires are easy to install in confined space or directly at workplaces. They are suitable for use in demanding industrial environments and in building automation.

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## Modlight Illumix LED machine light

The machine lights of the Modlight Illumix series ensure optimal illumination of machines and systems based on maintenance-free and durable LED technology in daylight quality. Rotatable mounting brackets provide flexibility in attaching the lights.

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## BRIGHT LIGHTS = CLEAR SIGNALS

Murrelektronik's Modlight Pro LED stack lights bring flexibility to your installations. The lights, available in five colors, can be combined as the user sees fit. An audible signal can also be integrated using the signal tower with a buzzer element.

The individual elements, available in two sizes – 50 or 70 mm diameters, are connected via bayonet locks that make installation quick and easy. The placement of the high-performance LED along with the facets on the external housing of each light ensures an enormous light yield.

Because Modlight Pro LED stack lights are IP65 rated and come with extensive approvals, there are few limits to the possible applications worldwide including in the building automation industry.

The stack lights can be ordered with a wide variety of bases including one that is magnetic and comes with an M12 connection on the side. This base can be quickly mounted and easily dismantled when the time comes for transport.

For clear signaling of process states, Murrelektronik offers the Modlight70 Pro with IO-Link interface. This IO-Link device can be easily integrated into the machine installation without any special configuration steps. It's M12 connection makes integration into an IO-Link system inexpensive – simply connect it using any unshielded 3-pole cordset.

For "short distance" applications check out Modlight30. It's the same great stack light as Modlight Pro in a smaller package.

### Reliable

- Maintenance-free over the machine's entire operating life
- Long lasting LED lights
- Optimal light output
- Vibration resistant

### Economical







- Energy-saving LEDs - never replace a bulb
- M12 port for easy connections
- 3 different mounting styles (floor, pipe or wall)
- IO-Link interface







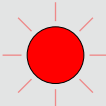
### Safe

- Tool-free assembly with bayonet locks
- IP65 rated
- Color-coded LED modules and connection terminals prevent installation errors



## OVERVIEW OF LED SIGNAL TOWERS

Series	Modlight30	Modlight50 Pro	Modlight70 Pro
			
Mounting	fest montiert	modular	modular
Diameter	30 mm	50 mm	70 mm
Degree of protection IP65	✓	✓	✓
LED lamp	✓	✓	✓
Max. buzzer volume	–	85 dB	90 dB
Number of possible signal levels	3	5 plus Buzzer	5 plus Buzzer
Voltage	24 V AC/DC	24 V DC	24 V DC
M12 connection	✓	–	✓
IO-Link control	–	–	✓
Approval			

Luminous signals	Buzzer / flash signals
 Emergency Dangerous condition  Abnormal Abnormal condition, impending critical condition  Normal Normal condition  Mandatory Signaling of a condition that requires operator action  Neutral Other conditions; may be used if in doubt about the use of RED, YELLOW, GREEN or BLUE	 <b>Buzzer</b> For environments with a large amount of scattered light and acoustic influences   <b>Flash signals</b> <ul style="list-style-type: none"> <li>• Cause increased attention</li> <li>• Prompt immediate reaction</li> <li>• Signaling of nominal and actual states</li> <li>• Signaling of a cycle change (remain on during transition)</li> </ul>

According to standards IEC 60204-1, IEC 60073



## POWERFUL INDIVIDUAL LIGHTS

Murrelektronik's Comlight56 signal lamps use high-powered LEDs to provide clear signals in machines and systems. Thanks to an innovative, prismatic cut on the outer housing, these compact lights shine exceptionally brightly. The family is rounded out by the new models with a built in IO-Link interface.

Comlight56 signal lamps are available with your choice of red, yellow, green, blue and clear dome colors. The multi-colored lights have a matte white surface and can display up to seven different colors thanks to RGB LEDs. Integrated buzzers provide an audible signal for applications that need more than just a visual status signal. Capacitive touch sensors can be used to send a direct operator confirmation back to the control system. These functions enable machines and systems to have standard-compliant signaling.

The Comlight56 IO-Link version is equipped with an IO-Link interface. The compact signal lights have low energy consumption thanks to innovative LED technology. Comlight56 IO-Link offers nine different visual effects. The combination with buzzer and eight selectable tones ensures even more attention.

The signal lamps are available either with an M16 thread and spring-loaded terminals or with an integrated M12 connection, to which a pre-assembled cable can be directly connected. For variants with IO-Link control, simple commissioning is also possible without IODD and software tools.

### Comlight56 Benefits at a Glance

- Strong, clear and bright light
- LEDs = very long service life, low cost of ownership
- Ideal solution for tight spaces
- Quick mounting, maintenance free
- IP65 rated
- Robust, shock and vibration resistant
- Models available with IO-Link interface



## OVERVIEW OF LED SINGLE LUMINAIRES

Series	Comlight56	Comlight56	Comlight56 IO-Link
			
Degree of protection	IP65 in plugged and locked state (EN 60529)		
Material	Plastic housing		
Connection technology	Spring clamp terminal	M12	
IO-Link control	-	-	✓

## PERFECT ILLUMINATION IN DAYLIGHT QUALITY

The machine lights of the Modlight Illumix series ensure optimal illumination of machines and systems based on maintenance-free and durable LED technology in daylight quality.

Their compact design makes them ideally suited for use in confined space. Rotatable mounting brackets provide additional flexibility in attaching the lights. M8 and M12 plug-in connection guarantee quick and error-free installation.

**Practice-oriented:** All Modlight Illumix luminaires can be controlled directly with a large number of Murrelektronik fieldbus modules.






**Modlight Illumix Slim Line** for use in industrial and plant facilities

**Modlight Illumix Classic Line** for use in environments in which coolants and lubricants, flying chips or sparks are encountered

**Modlight Illumix Xtreme Line** for use under tough conditions in industrial and plant facilities

## OVERVIEW OF MACHINE LIGHTS

Series	Modlight Illumix Slim Line	Modlight Illumix Classic Line	Modlight Illumix Xtreme Line
			
Degree of protection	IP54	IP67	IP69K
Material	Plastic housing	Metal housing (and toughened safety glass)	
Connection technology	M8	M12	M12 in V2A stainless steel quality
Material resistance	-	To coolants and lubricants	



## MODLIGHT SIGNAL TOWER ORDER DATA

Sets			Art.-No.
	<b>Modlight30 (green/yellow/red)</b>		
	Connecting element + LED modules	Connecting cable L = 300 mm	4000-75324-5310000
	Connecting element + LED modules	Connection: M12 (bottom), plug, 4 pins	4000-75330-5310000
	<b>Modlight50 Pro (green/yellow/red)</b>		
	Base + LED modules		4000-76501-5310000
	<b>Modlight70 Pro (green/yellow/red)</b>		
	Base + LED modules + M12 (bottom)	Connection: M12 (bottom), plug, 8 pins	4000-76704-5310000
	<b>Modlight70 Pro (green/yellow/red)</b>		
	Base + LED modules + M12 (side)	Connection: M12 (bottom), plug, 8 pins	4000-76712-5310000
	Base, buzzer + LED modules + M12 (side)	Connection: M12 (bottom), plug, 8 pins	4000-76705-5310000
	Base, buzzer + LED modules + M12 (side)	Connection: M12 (bottom), plug, 8 pins	4000-76713-5310000
Connecting elements			Art.-No.
	<b>Base for floor mounting</b>		
	Modlight50 Pro	Spring clamp terminal cURus	4000-76050-1100002
	Modlight70 Pro	Spring clamp terminal cURus	4000-76070-1100002
	<b>Base for tube mounting</b>		
	Modlight50 Pro	Spring clamp terminal cURus	4000-76050-1100003
	Modlight70 Pro	Spring clamp terminal cURus	4000-76070-1100003
	<b>Modlight70 Pro</b>		
	Base	Connection: M12 (bottom), plug, 8 pins	4000-76070-1300002
	Base with IO-Link	Connection: M12 (bottom), plug, 4 pins	4000-76070-1300015



Connecting elements			Art.-No.
	<b>Modlight70 Pro</b>		
	Base	Connection: M12 (side), plug, 8 pins	4000-76070-1400002
	Base with IO-Link	Connection: M12 (side), plug, 4 pins	4000-76070-1400015
	Base with magnetic holder	Connection: M12 (side), plug, 8 pins	4000-76070-1500002
Buzzer modules			Art.-No.
	Modlight50 Pro buzzer module		4000-76050-1100004
	Modlight70 Pro buzzer module		4000-76070-1100004
LED modules			Art.-No.
	Modlight50 Pro LED module, red		4000-76050-1011000
	Modlight70 Pro LED module, red		4000-76070-1011000
	Modlight50 Pro LED module, yellow		4000-76050-1012000
	Modlight70 Pro LED module, yellow		4000-76070-1012000
	Modlight50 Pro LED module, green		4000-76050-1013000
	Modlight70 Pro LED module, green		4000-76070-1013000
	Modlight50 Pro LED module, blue		4000-76050-1014000
	Modlight70 Pro LED module, blue		4000-76070-1014000
	Modlight50 Pro LED module, clear		4000-76050-1015000
	Modlight70 Pro LED module, clear		4000-76070-1015000



Modlight30 accessories			Art.-No.
	Adapter for wall mounting		
			4000-75030-0000903
Modlight50/70 accessories			Art.-No.
	Adapter for tube mounting, bottom		
		For Modlight50/70 Pro	4000-76070-0000901
	Adapter for tube wall mounting		
		For Modlight50/70 Pro	4000-76070-0000902
	Adapter for wall mounting		
		For Modlight70 Pro	4000-76070-0000903
	Adapter for wall mounting		
		For Modlight70 Pro	4000-75070-0000904
	Aluminum tube		
	300 mm	For Modlight50/70 Pro	4000-76070-0000913
	800 mm	For Modlight50/70 Pro	4000-76070-0000918
	Magnetic base		
	With M16 × 1.5 screw connection	Cable entry on the side For Modlight50/70 Pro	4000-75070-0000920
	Magnetic base		
	With M12 plug, 8 pins	Connection at the side For Modlight50/70 Pro	4000-75070-0000921

Modlight50/70 accessories			Art.-No.
	<b>Mounting adapter</b>		
	For strain relief	Outlet facing down or sideways	<b>4000-75070-0000922</b>
	<b>Signboard</b>		
	Transparent	For Modlight50 Pro	<b>4000-76050-0000923</b>
	Transparent	For Modlight70 Pro	<b>4000-76070-0000923</b>




## COMLIGHT56 SINGLE LUMINAIRE ORDER DATA

Compact signal lights			Art.-No.
	<b>Comlight56</b>		
	Red	Spring clamp terminal connection	<b>4000-76056-1111000</b>
	Red	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-1311000</b>
	<b>Comlight56</b>		
	Yellow	Spring clamp terminal connection	<b>4000-76056-1112000</b>
	Yellow	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-1312000</b>
	<b>Comlight56</b>		
	Green	Spring clamp terminal connection	<b>4000-76056-1113000</b>
	Green	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-1313000</b>
	<b>Comlight56</b>		
	Blue	Spring clamp terminal connection	<b>4000-76056-1114000</b>
	Blue	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-1314000</b>
	<b>Comlight56</b>		
	Clear	Spring clamp terminal connection	<b>4000-76056-1115000</b>
	Clear	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-1315000</b>

Compact signal lights			Art.-No.
	<b>Comlight56 with IO-Link</b>		
	RGB-LED's	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-0000001</b>
	<b>Comlight56 with IO-Link</b>		
	RGB LED's with buzzer	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-0000002</b>
	<b>Comlight56 with IO-Link</b>		
	RGB LED's with capacitive touch sensor	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-0000003</b>
	<b>Comlight56 with IO-Link</b>		
	RGB LED's with buzzer and capacitive touch sensor	Connection: M12 (bottom), plug, 4 pins	<b>4000-76056-0000004</b>
	<b>Adapter for wall mounting</b>		
		For Comlight56	<b>4000-76056-0000903</b>

## ILLUMIX MACHINE LIGHT ORDER DATA

LED machine lights			Art.-No.
	<b>Modlight Illumix Slim Line</b>		
	4 W - 24 V DC Connection: M8, plug, 4 pins	IP54 cULus	<b>4000-75800-1715004</b>
	8 W - 24 V DC Connection: M8, plug, 4 pins	IP54 cULus	<b>4000-75800-1715008</b>
	16 W - 24 V DC Connection: M8, plug, 4 pins	IP54 cULus	<b>4000-75800-1715016</b>
	24 W - 24 V DC Connection: M8, plug, 4 pins	IP54 cULus	<b>4000-75800-1715024</b>
	32 W - 24 V DC Connection: M8, plug, 4 pins	IP54 cULus	<b>4000-75800-1715032</b>
	<b>Modlight Illumix Slim Line C</b>		
	4 W - 24 V DC Connection: M8, plug/socket, 4 pins Expandable	IP54 cULus	<b>4000-75900-1715004</b>
	8 W - 24 V DC Connection: M8, plug/socket, 4 pins Expandable	IP54 cULus	<b>4000-75900-1715008</b>
	16 W - 24 V DC Connection: M8, plug/socket, 4 pins Expandable	IP54 cULus	<b>4000-75900-1715016</b>
	24 W - 24 V DC Connection: M8, plug/socket, 4 pins Expandable	IP54 cULus	<b>4000-75900-1715024</b>
	32 W - 24 V DC Connection: M8, plug/socket, 4 pins Expandable	IP54 cULus	<b>4000-75900-1715032</b>
	<b>Modlight Illumix Classic Line</b>		
	6 W - 24 V DC Connection: M12, plug, 4 pins	IP67 cULus	<b>4000-75801-1415006</b>
	12 W - 24 V DC Connection: M12, plug, 4 pins	IP67 cULus	<b>4000-75801-1415012</b>
	18 W - 24 V DC Connection: M12, plug, 4 pins	IP67 cULus	<b>4000-75801-1415018</b>
	24 W - 24 V DC Connection: M12, plug, 4 pins	IP67 cULus	<b>4000-75801-1415024</b>

LED machine lights			Art.-No.
	<b>Modlight Illumix Classic Line C</b>		
	6 W - 24 V DC Connection: M12, plug/socket, 4 pins Expandable	IP67 cULus	4000-75901-1415006
	12 W - 24 V DC Connection: M12, plug/socket, 4 pins Expandable	IP67 cULus	4000-75901-1415012
	18 W - 24 V DC Connection: M12, plug/socket, 4 pins Expandable	IP67 cULus	4000-75901-1415018
	24 W - 24 V DC Connection: M12, plug/socket, 4 pins Expandable	IP67 cULus	4000-75901-1415024
	<b>Modlight Illumix Xtreme</b>		
	27 W - 24 V DC Connection: M12, plug, 5 pins	IP69K cULus	4000-75827-1315000
	<b>Modlight Illumix Xtreme</b>		
	Joint head		4000-75800-0000900

Matching connection technology and accompanying information material can be found in our **online shop**:

➔ [onlineshop.murrelektronik.com](https://onlineshop.murrelektronik.com)





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