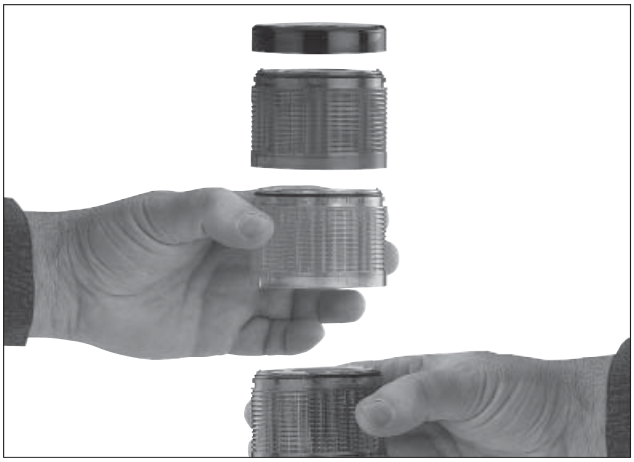
SIGNAL TOWERS MODLIGHT70

MURR ELEKTRONIK
stay connected

Maximum Flexibility and Optimum Light Yield

Thanks to its modular design concept, you can combine up to five signal colors conveniently. Two different signal tone alarms are already integrated in the base unit.

The Modlight70 signal tower modules can be conveniently connected with notches. A patented double reflector system and high-quality LEDs provide intense, visible light. The housing fulfils IP65 protection. CE, UL, and cUL approvals mean Modlight70 can be used worldwide. A magnetic base with a pluggable connection for fast disassembly correct re-assembly during transportation is another benefit.



Intuitive Indications

Color	Signification	Explanation	Action by operator
RED	Emergency	Hazardous conditions	Immediate action to deal with a hazardous conditions (e.g. shutdown power supply of the machine, be aware , of hazardous conditions, keep away from machine)
ORANGE	Abnormal	Abnormal condition, impending critical condition	Monitoring and/or intervention (e.g. by restoring the intended function)
GREEN	Normal	Normal condition	Optional
BLUE	Mandatory	Indicates a condition that requires action by the operator	Mandatory action
CLEAR	Neutral	Other conditions; may be used in case of doubt regarding the application of RED, YELLOW, GREEN, or BLUE	Monitoring

according IED 60204-1

Modlight70

Connection modules

- Diameter 70 mm
- With and without buzzer
- AS-Interface control as option

from page 1.18.2

LED modules

- Innovative LED technology
- Energy saving
- Maintenance-free and durable

page 1.18.8

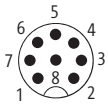
Assembly accessories

- Tube mounting
- Wall mounting
- Magnet base

page 1.18.9

SIGNAL TOWERS MODLIGHT70

Connection modules	Basic		Basic With magnet base M12	
Approvals:				
Contact layout				



Contact 1: +
Contact 2: LED red
Contact 3: –
Contact 4: LED transparent
Contact 5: LED yellow
Contact 6: LED blue
Contact 7: LED green
Contact 8: Continious alarm

Ordering data	Art.-No.	Art.-No.	Art.-No.	Art.-No.
Basic	**4000-75070-110 0002**		**4000-75070-150 0002**	
Basic	[1] 4000-75070-110 0012			
Basic + buzzer + flash		**4000-75070-110 0003**		**4000-75070-150 0003**
Technical data				
Nominal voltage	24 V DC			
Voltage range	21.6...26.4 V DC			
Buzzer (infinitely adjustable)	–	continuous and intermittent alarm	–	continuous and intermittent alarm
Switching pressure level	–	70...90 ± 5 dB	–	70...90 ± 5 dB
Flash cycles	–	60 ± 12 per minute	–	60 ± 12 per minute
Adhesive force	–		290 N (depending on surface)	
General data				
Protection	IP65 when plugged and screwed down (EN 60529)			
Connection	spring clamp terminals		M12, 8-pole	
Housing	plastic, black			
Temperature range	-30...+60 °C			
Weight	approx. 270 g; [1] approx. 150 g	approx. 290 g	approx. 630 g	approx. 646 g
Dimensions ø x H	70 x 170 mm; [1] 70 x 77.5 mm		70 x 220.5 mm	

Notes

[1] Shortened basic element

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Connection modules

– pre-wired with flange plug connector M12

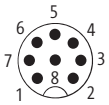
Approvals: c UL us Listed

Basic
M12 bottom exit

Basic
M12 side exit

Contact layout

Male



Contact 1: +
Contact 2: LED red
Contact 3: –
Contact 4: LED transparent
Contact 5: LED yellow
Contact 6: LED blue
Contact 7: LED green
Contact 8: Continious alarm

Ordering data	**Art.-No.**	**Art.-No.**	**Art.-No.**	**Art.-No.**
Basic	**4000-75070-130 0002**		**4000-75070-140 0002**	
Basic + buzzer + flash		**4000-75070-130 0003**		**4000-75070-140 0003**

Technical data				
Nominal voltage	24 V DC			
Voltage range	21.6...26.4 V DC			
Buzzer (infinitely adjustable)	–	continuous and intermittent alarm	–	continuous and intermittent alarm
Switching pressure level	–	70...90 ± 5 dB	–	70...90 ± 5 dB
Flash cycles	–	60 ± 12 per minute	–	60 ± 12 per minute

General data	
Protection	IP65 when plugged and screwed down (EN 60529)
Connection	M12, 8-pole
Housing	plastic, black
Temperature range	-30...+60 °C
Weight	approx. 319 g
Dimensions ø x H	70 x 190 mm

Notes

SIGNAL TOWERS MODLIGHT70

Connection modules

– AS-Interface bus control

– pre-wired with flange plug connector M12

– for operating LED modules

Approvals:

Basic AB Slave
M12 bottom exit
4 signals

Basic AB Slave
M12 side exit
4 signals

Contact layout

Male

Contact 1: AS-Interface +
Contact 2: n.c.
Contact 3: AS-Interface –
Contact 4: n.c.

Ordering data	**Art.-No.**	**Art.-No.**	**Art.-No.**	**Art.-No.**
Basic	4000-75070-130 0004		4000-75070-140 0004	
Basic + buzzer		4000-75070-130 0005		4000-75070-140 0005

Technical data				
AS-Interface bus voltage	26.5...31.6 V DC			
AS-Interface current usage	max. 20 mA			
Addressing	at M12 connection via master or programming device; address presetting 0			
Address range	1...62 (1...31A or B)			
Profile (I0/ID/ID2)	S-7.A.7			
Buzzer (infinitely adjustable)	–	continuous and intermittent alarm	–	continuous and intermittent alarm
Switching pressure level	–	70...90 ± 5 dB	–	70...90 ± 5 dB

Outputs	
Number	4
Supply voltage	via AS-Interface bus
Switching current per output	max. 60 mA, short-circuit and overload protected

General data	
Protection	IP65 when plugged and screwed down (EN 60529)
Connection	M12, 4-pole
Housing	plastic, black
Temperature range	-30...+60 °C
Weight	approx. 319 g
Dimensions ø x H	70 x 190 mm

Notes

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Connection modules

– AS-Interface bus control

– pre-wired with flange plug connector M12

– for operating LED modules and LED flash modules

Approvals:

Basic AB Slave
M12 bottom exit
4 signals

Basic AB Slave
M12 side exit
4 signals

Contact layout

Male

Contact 1: AS-Interface +
Contact 2: Power GND
Contact 3: AS-Interface –
Contact 4: Power 24 V

Ordering data	**Art.-No.**	**Art.-No.**	**Art.-No.**	**Art.-No.**
Basic	4000-75070-130 0006		4000-75070-140 0006	
Basic + buzzer		4000-75070-130 0007		4000-75070-140 0007

Technical data				
AS-Interface bus voltage	26.5...31.6 V DC			
AS-Interface current usage	max. 20 mA			
Addressing	at M12 connection via master or programming device; address presetting 0			
Address range	1...62 (1...31A or B)			
Profile (I0/ID/ID2)	S-7.A.7			
Buzzer (infinitely adjustable)	–	continuous and intermittent alarm	–	continuous and intermittent alarm
Switching pressure level	–	70...90 ± 5 dB	–	70...90 ± 5 dB

Outputs	
Number	4
Supply voltage	external 24 V DC (18...30.2 V DC) acc. to EN 61131-2
Switching current per output	max. 0.5 A, short-circuit and overload protected, suitable for LED flash modules

General data	
Protection	IP65 when plugged and screwed down (EN 60529)
Connection	M12, 4-pole
Housing	plastic, black
Temperature range	-30...+60 °C
Weight	approx. 319 g
Dimensions ø x H	70 x 190 mm

Notes

SIGNAL TOWERS MODLIGHT70

Connection modules

– AS-Interface bus control

– pre-wired with flange plug connector M12

– for operating LED modules and LED flash modules

Approvals:

Basic 2 x AB Slave
M12 bottom exit
5/7 signals

Basic 2 x AB Slave
M12 side exit
5/7 signals

Contact layout

Male

Contact 1: AS-Interface +
Contact 2: Power GND
Contact 3: AS-Interface –
Contact 4: Power 24 V

Ordering data	**Art.-No.**	**Art.-No.**	**Art.-No.**	**Art.-No.**
Basic	4000-75070-130 0008		4000-75070-140 0008	
Basic + buzzer		4000-75070-130 0009		4000-75070-140 0009

Technical data				
AS-Interface bus voltage	26.5...31.6 V DC			
AS-Interface current usage	max. 40 mA			
Addressing 2 Slaves	at M12 connection via master or programming device; address presetting 31A/31B			
Address range	2 x 1...62 (2 x 1...31A or B)			
Profile (I0/ID/ID2)	S-7.A.7			
Buzzer (infinitely adjustable)	–	continuous and intermittent alarm	–	continuous and intermittent alarm
Switching pressure level	–	70...90 ± 5 dB	–	70...90 ± 5 dB
Outputs				
Number	5	7	5	7
Supply voltage	external 24 V DC (18...30.2 V DC) acc. to EN 61131-2			
Switching current per output	max. 0.5 A, short-circuit and overload protected, suitable for LED flash modules			
General data				
Protection	IP65 when plugged and screwed down (EN 60529)			
Connection	M12, 4-pole			
Housing	plastic, black			
Temperature range	-30...+60 °C			
Weight	approx. 319 g			
Dimensions ø x H	70 x 190 mm			

Notes

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Connection modules

– AS-Interface bus control

– pre-wired with flange plug connector M12

– for operating LED modules and LED flash modules

Basic AB Slave
With magnet base M12
4 signals

Approvals:

Contact layout

Male

Contact 1: AS-Interface +
Contact 2: Power GND
Contact 3: AS-Interface –
Contact 4: Power 24 V

Ordering data	**Art.-No.**	**Art.-No.**
Basic	4000-75070-150 0006	
Basic + buzzer + flash		4000-75070-150 0007

Technical data		
AS-Interface bus voltage	26.5...31.6 V DC	
AS-Interface current usage	max. 20 mA	
Addressing	at M12 connection via master or programming device; address presetting 0	
Address range	1...62 (1...31A or B)	
Profile (I0/ID/ID2)	S-7.A.7	
Buzzer (infinitely adjustable)	–	continuous and intermittent alarm
Switching pressure level	–	70...90 ± 5 dB
Adhesive force	290 N (depending on surface)	
Outputs		
Number	4	
Supply voltage	external 24 V DC (18...30.2 V DC) acc. to EN 61131-2	
Switching current per output	max. 0.5 A, short-circuit and overload protected, suitable for LED flash modules	
General data		
Protection	IP65 when plugged and screwed down (EN 60529)	
Connection	M12, 4-pole	
Housing	plastic, black	
Temperature range	-30...+60 °C	
Weight	approx. 660 g	approx. 680 g
Dimensions ø x H	70 x 220.5 mm	

Notes

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LED modules

Approvals: c UL us Listed

Ordering data		LED module Art.-No.	LED flash module Art.-No.
Voltage	Module color		
24 V DC	red	**4000-75070-101 1000**	**4000-75070-102 1000**
	yellow	**4000-75070-101 2000**	**4000-75070-102 2000**
	green	**4000-75070-101 3000**	
	blue	**4000-75070-101 4000**	
	transparent	**4000-75070-101 5000**	**4000-75070-102 5000**

Technical data		
Nominal voltage	24 V DC	
Voltage range	21.6...26.4 V DC	
Current usage	max. 62.5 mA	max. 340 ± 90 mA
Flash cycles	–	77 ± 10 per minute
Flash	–	double flash

General data		
Protection	IP65 when plugged and screwed down (EN 60529)	
Connection	notched contact	
Housing	plastic, PC	
Temperature range	-30...+60 °C	-10...+60 °C
Weight	approx. 60 g	approx. 70 g
Dimensions ø x H	70 x 49 mm	

Notes

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Assembly accessories			Art.-No.
	Adapter for tube mounting	upper	**4000-75070-000 0900**
	Adapter for tube mounting	bottom	**4000-75070-000 0901**
	Adapter for tube/wall mounting		**4000-75070-000 0902**
	Adapter for wall mounting		**4000-75070-000 0903**
	Aluminium tube	300 mm	**4000-75070-000 0913**
	Magnet base	with cable compression gland M16 x 1.5 mm	**4000-75070-000 0920**
	Magnet base	with M12 flange plug connector 8-pole	**4000-75070-000 0921**
	Mounting adapter	for strain relief for bottom or side exit	**4000-75070-000 0922**

Notes