

HTMTM
SENSORS



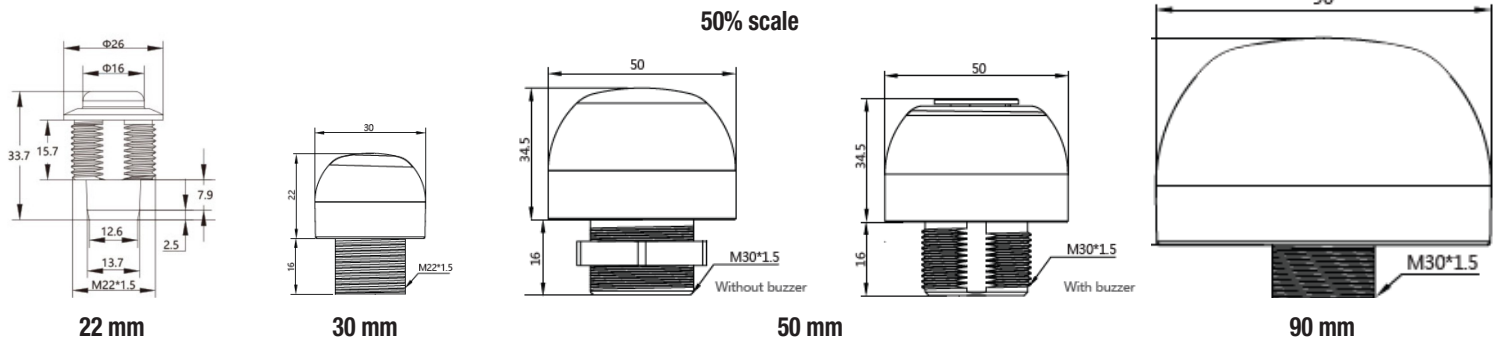
- DISPLAYS 4 COLORS STEADY ON
- COMPACT AND PATENTED DESIGN, DOMED INDICATOR, EASY TO SEE OPERATOR GUIDANCE AND EQUIPMENT STATUS
- IP69K, WATERPROOF, SHOCK PROOF, CORROSION PROOF, OIL PROOF - CAN BE USED IN EXTREMELY HARSH ENVIRONMENT
- EASY TO USE, NO OTHER CONTROLLER NEEDED

MULTI-COLORED LED INDICATOR LIGHTS SPECIFICATIONS



OPERATING VOLTAGE		24 V DC			
OPERATING TEMPERATURE		-40 °C - +50 °C (Buzzer Models -20 °C - +50 °C)			
HOUSING MATERIAL		Powerful SMD LED, high transmittance and reinforced polycarbonate housing, rugged body, unique designed driver			
INDICATION COLORS		Red/Yellow/Green/Blue			
INPUT TYPE		Bipolar			
CURRENT CONSUMPTION		24 V DC 80 mA (Buzzer 30 mA - HL50 only)			
INDICATION COLORS		Red/Yellow/Green/Blue			
RESPONSE TIME		< Indicator ON: 250 ms max.; Indicator OFF: 10 ms max			
IP RATING		IP69K (Buzzer Models are IP53K)			
LED LIFESPAN		100,000 hours			
IO-LINK - CONSULT FACTORY					
DIMENSION		22 mm	30 mm	50 mm	90 mm
PART NUMBERS					
2 m Pre-wired	R ■ Y ■ G ■ B ■	HL22-RYGB-2M	HL30-RYGB-2M	**HL50(B)-RYGB-2M	HL90-RYGB-2M

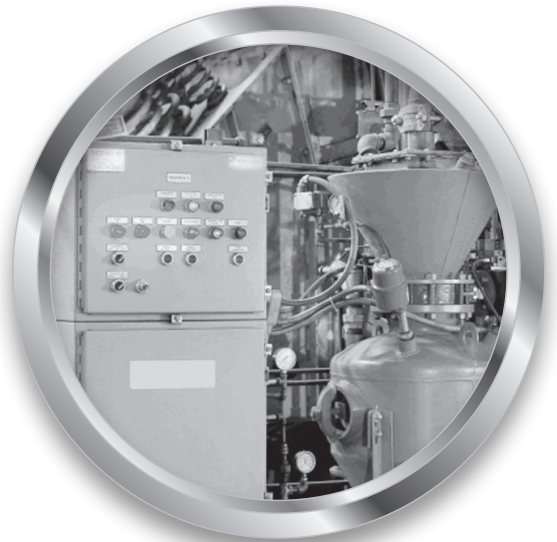
*Please consult factory for touch and buzzer options. **(B) Indicates Buzzer



MULTI-COLORED LED INDICATORS OFFER SPEED OF INSTALLATION AND EASY WIRING, WITH BRIGHT AND LONG LASTING LED'S.



In Canada: 3419 Mainway, Burlington, ON L7M 1A9
In the USA: 1889 Maryland Ave., Niagara Falls, NY 14304
Toll Free: 1-800-644-1756
service@htmsensors.com



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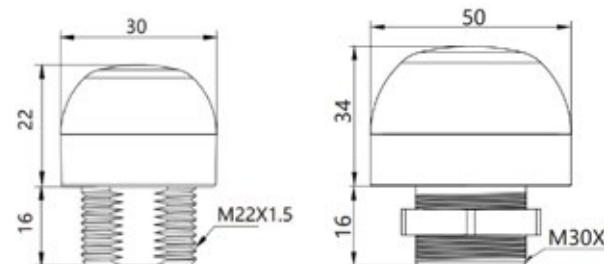
- COMPACT DESIGN, WATERPROOF. CORROSION PROOF, OIL PROOF. CAN BE WIDELY USED IN VARIOUS INDUSTRY WORKSHOPS
- EXCELLENT IMMUNITY TO FALSE TRIGGERING BY WATER SPRAY, DETERGENTS, OILS AND OTHER FOREIGN MATERIALS
- ACTUATED WITH FINGER, HAND OR PALM OR WITH WORK GLOVES. IMPROVE PRODUCTIVITY AND AVOID ERROR IN ASSEMBLY LINE

COLORED LED TOUCH BUTTONS SPECIFICATIONS



DIAMETER	30 mm	50 mm
OPERATING VOLTAGE	24 VDC +/- 10%	
OPERATING TEMPERATURE	-40 °C - +50 °C	
HOUSING MATERIAL	ABS	
INDICATION COLORS	Red/Yellow/Green/Blue	
INPUT TYPE	PNP or NPN	
OUTPUT CURRENT	120 mA	
INDICATION COLORS	Red/Yellow/Green/Blue	
RESPONSE TIME	25ms On/Off	
IP RATING	IP69K	
LENSE MATERIAL	Polycarbonate	
IO-LINK	PLEASE CONSULT FACTORY	

Dimensions

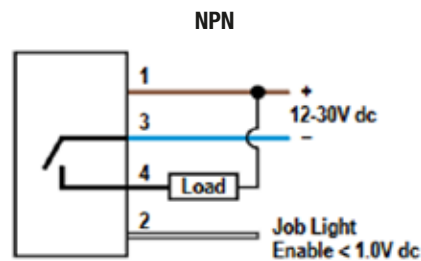
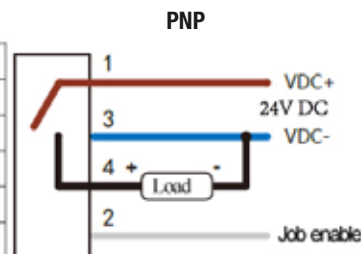


HL30T

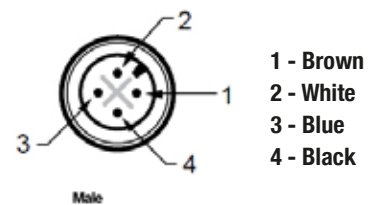
HL50T

Pre-wired

No.	Cable color	Remark
1	Brown	VDC+
2	Gray	Job enable
3	Blue	VDC-
4	BLK	Output
5	--	Null



M12 QD



	Model	Function	Output Type	Colors	Connection
Example Part Number	HL50	T	P	GR	2M
Options Available	HL50=50 mm dia dome HL30=30 mm dia dome	T=Touch TF1=Touch Function 1 TF2=Touch Function 2	P=PNP N=NPN	First colour listed is job colour, second colour is the touch colour R=Red / Y=Yellow / G=Green / B=Blue	2M=Pre-wired Cable Length P12=0.3 m, M12 A-Coded Pigtail

Touch Function=	Only one colour is required Job Colour Illuminated at all times while job input is active Touch Activates output
Touch Function 1=	Two colours are required Job and Touch Job Colour is illuminated while Job input is active Touch Activates the output and overrides the Job colour with the Touch colour
Touch Function 2=	Two colours are required Job and Touch Job Colour is illuminated while Job input is active Touch Activates the output If Job Input is not active and unit is touched, Touch colour is illuminated

Part Numbers	
30 mm Touch Buttons	50 mm Touch Buttons
HL30TP-G-2M	HL50TP-G-2M
HL30TF1P-GR-2M	HL50TF1P-GR-2M
HL30TF2P-GR-2M	HL50TF2P-GR-2M
HL30TP-G-P12	HL50TP-G-P12
HL30TF1P-GR-P12	HL50TF1P-GR-P12
HL30TF2P-GR-P12	HL50TF2P-GR-P12
HL30TN-G-2M	HL50TN-G-2M
HL30TF1N-GR-2M	HL50TF1N-GR-2M
HL30TF2N-GR-2M	HL50TF2N-GR-2M
HL30TN-G-P12	HL50TN-G-P12
HL30TF1N-GR-P12	HL50TF1N-GR-P12
HL30TF2N-GR-P12	HL50TF2N-GR-P12



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SIGNAL COLUMN LIGHTS
50 MM DIAMETER

HTMTM
SENSORS

HLC50



- MULTIPLE COLORS AVAILABLE, EASY INSTALLATION
- UNIFORM LIGHT, NO GLARE
- COST EFFECTIVE

HTMSENSORS.COM

SIGNAL COLUMN LIGHTS 50 MM DIAMETER SPECIFICATIONS

Specification

HLC50 (no buzzer)

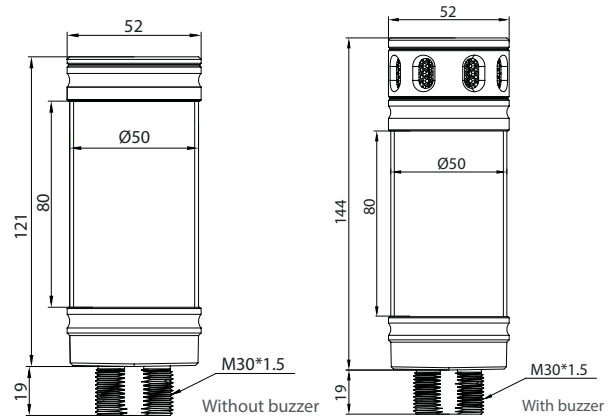


HLC50 (buzzer)



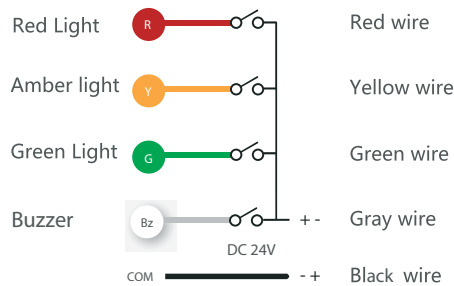
Diameter (mm)		50	
Available Colors		Red/Yellow/Green	
Buzzer		—	70db - 90db @ 2.7Khz
Operating Voltage		24 VDC +/- 10%	
Current Draw	Per Color	80 mA max	
	Buzzer	—	25 mA max
Input Type		Bi-polar	
Response Time		On/Off 10mS	
Connection		2 m cable or M12 A-coded quick connect	
Operating Temperature		Without Buzzer -40 °C to +50 °C With Buzzer -20 °C to +50 °C	
IP Rating		IP65	IP53
Housing Material		ABS	
Lense Material		Polycarbonate	
IO-Link		Please consult factory	

Dimensions



Wiring Diagram

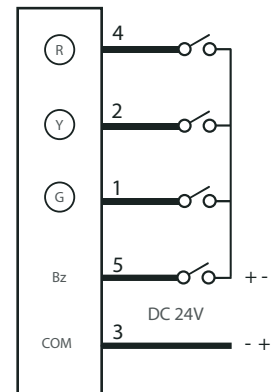
For wire ends



For M12 QD

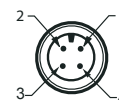
Bz is buzzer

RYG

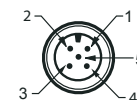


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Without buzzer



With buzzer



M12 QD Male

TOLL FREE: 1-800-644-1756

SIGNAL TOWER LIGHTS
50 MM DIAMETER

HTMTM
SENSORS

HLT50



- UNIFORM LIGHT, NO GLARE, ELIMINATE FALSE INDICATION
- COMPACT, MULTI COLORS AVAILABLE
- SPECIALLY DESIGNED BUZZER WITH ADJUSTABLE AUDIO

HTMSENSORS.COM

SIGNAL TOWER LIGHTS 50 MM DIAMETER SPECIFICATIONS

Specification

HLT50 (no buzzer)

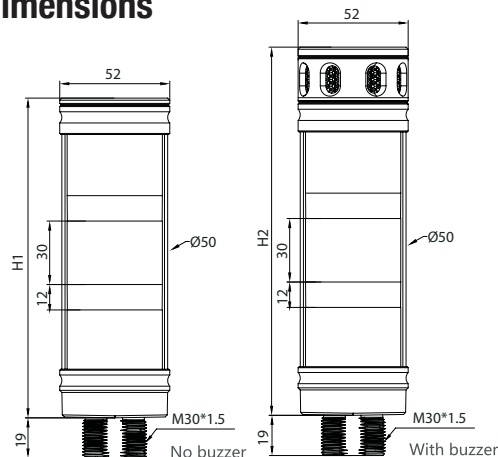


HLT50 (buzzer)



Diameter (mm)	50	
Available Colors	Red/Yellow/Green/Blue/White	
Buzzer	—	70db - 90db @ 2.7Khz
Operating Voltage	24 VDC +/- 10%	
Current Draw	Per Color	40 mA max
	Buzzer	25 mA
Input Type	Bi-polar	
Response Time	On/Off 10mS	
Connection	2 m cable or M12 A-coded quick connect	
Operating Temperature	Without Buzzer -40 °C to +50 °C With Buzzer -20 °C to +50 °C	
IP Rating	IP65	IP53
Housing Material	ABS	
Lense Material	Polycarbonate	
IO-Link	Please consult factory	

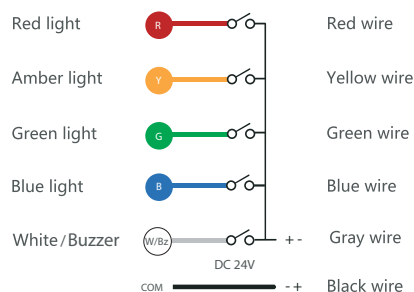
Dimensions



Stack	Tower light Height H	
	No buzzer H1	W/Buzzer H2
2	110mm	133mm
3	152mm	175mm
4	194mm	217mm
5	236mm	—

Wiring Diagram

For wire ends

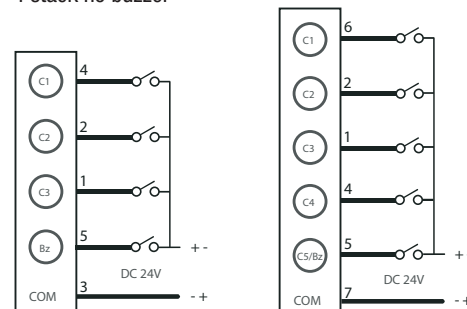


For M12 QD

* From top to base C1 C2 C3 C4 C5 Bz is buzzer

3 stack no buzzer
3 stack with buzzer
4 stack no buzzer

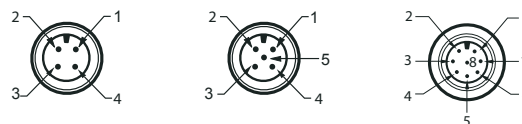
4 Stack with buzzer
5 Stack no buzzer



3 stack no buzzer

3 stack with buzzer
4 stack no buzzer

4 stack with buzzer
5 stack no buzzer



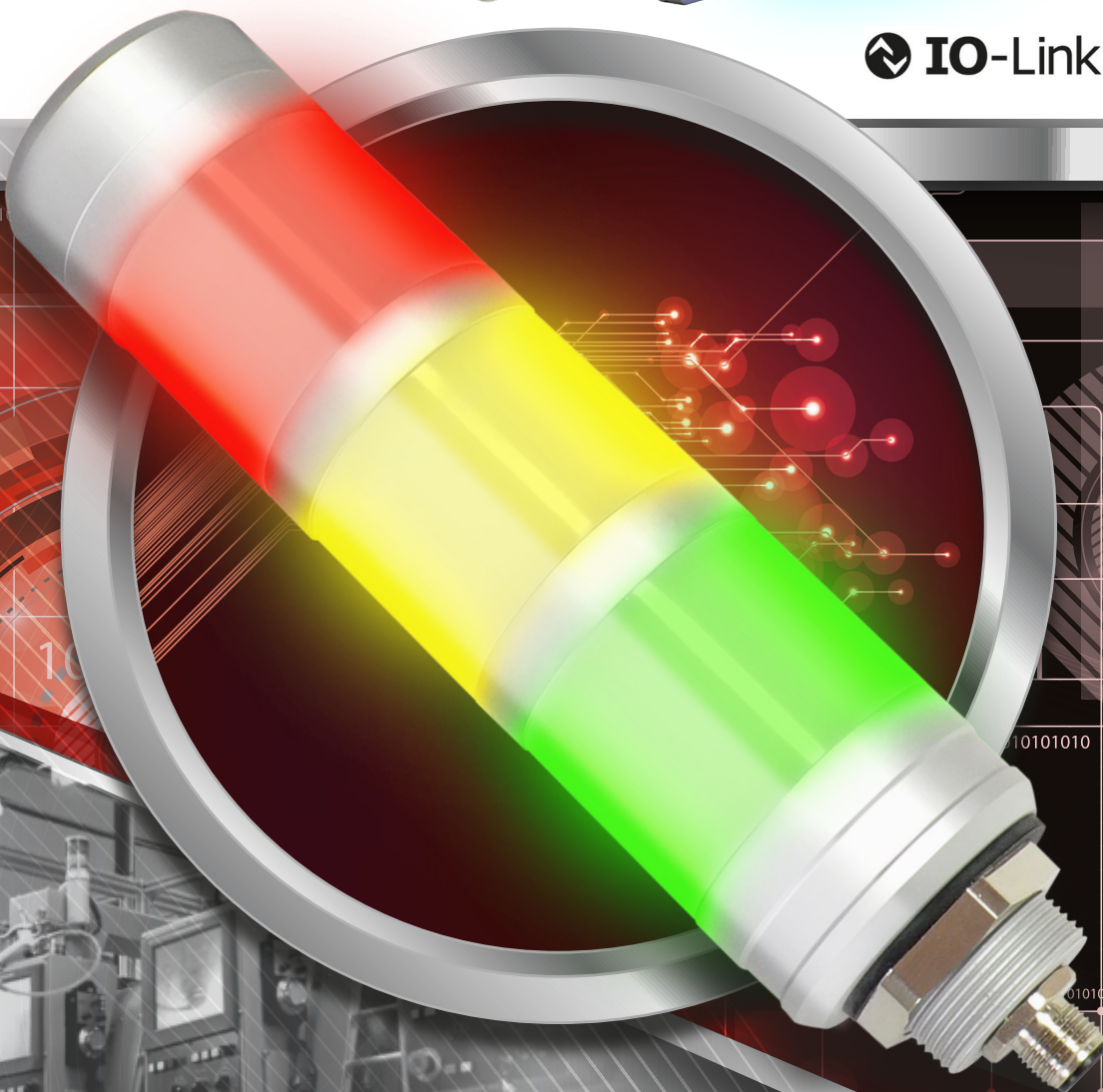
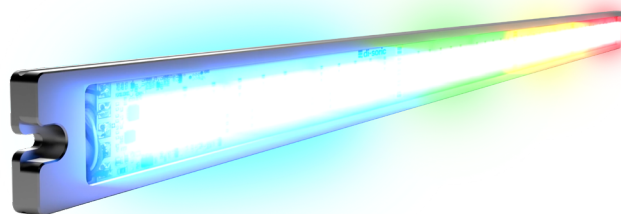
M12 QD Male



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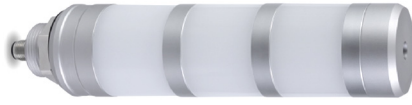


- HIGH VISIBILITY, BRIGHT
- NEARLY ENDLESS NUMBER OF POSSIBLE COLORS
- ADJUSTABLE BRIGHTNESS
- FLEXIBLE, COST-EFFECTIVE, EASY TO INSTALL
- FREELY CONFIGURABLE LIGHT FUNCTIONS VIA IO-LINK

IO-LINK LED SIGNAL DEVICES SPECIFICATIONS

HLT50B-IOL-S3 (shown)

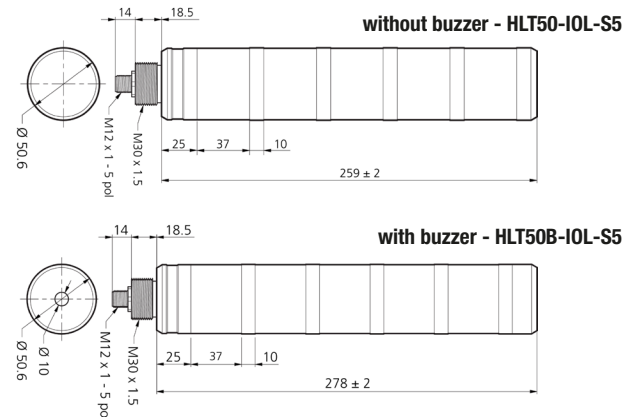
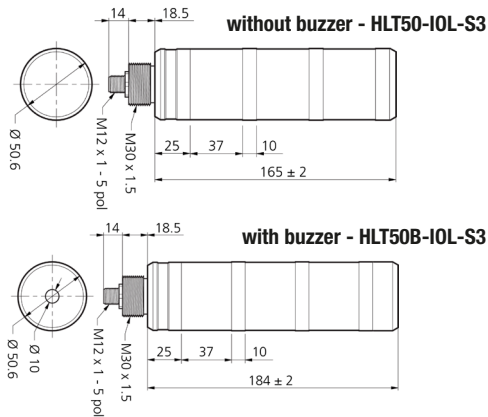
HLT50-IOL-S5 (shown)



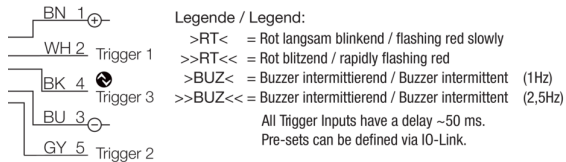
DIAMETER		50 mm	
LIGHT SOURCE		LED	
AVAILABLE COLORS			
BUZZER (PART NUMBER INCLUDES 'B')		80 (dB(A) typ. @ 50 cm	
OPERATING VOLTAGE		18-30 V DC	
CURRENT DRAW	LED @ 24 V DC	175 mA	285 mA
	BUZZER	20 mA	
INPUT TYPE		PNP	
CONNECTION		5 Pin M12 A-coded quick connect	
OPERATING TEMPERATURE		0 °C to +50 °C	
IP RATING		IP65 (with Buzzer, IP20)	
HOUSING MATERIAL		Aluminum	
LENSE MATERIAL		Polycarbonate	
IO-LINK		IO-Link (V1.1, COM2 38.4 kBd, 2,300 µs)	



Dimensions



M12 QD



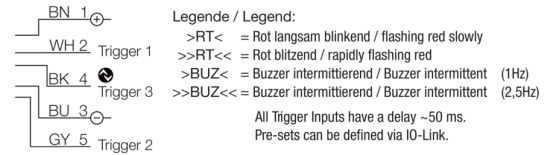
TRIG 1	TRIG 2	TRIG 3	Pre-Set	Factory setting (Seg 1 / Seg 2 / Seg 3 / BUZ)		
				Var. 3S	Var. 3B	
0	0	0	1	-- -- --	-- -- --	
1	0	0	2	-- -- RT	-- -- RT	
0	1	0	3	GN -- --	GN -- --	
1	1	0	4	-- YE --	-- YE --	
0	0	1	5	BU -- --	BU -- --	
1	0	1	6	WH -- --	WH -- --	
0	1	1	7	-- -- >RT<	-- -- >RT<	>BUZ<
1	1	1	8	-- -- >>RT<<	-- -- >>RT<<	>>BUZ<<

BK: black
BN: brown

BU: blue
GN: green

GY: grey
WH: white

YE: yellow



TRIG 1	TRIG 2	TRIG 3	Pre-Set	Factory setting (Seg 1 / Seg 2 / Seg 3 / Seg 4 / BUZ)		
				Var. 5S	Var. 5B	
0	0	0	1	-- -- --	-- -- --	
1	0	0	2	-- -- -- RT	-- -- -- RT	
0	1	0	3	-- -- GN	-- -- GN	
1	1	0	4	-- -- -- YE	-- -- -- YE	
0	0	1	5	-- BU --	-- BU --	
1	0	1	6	WH -- --	WH -- --	
0	1	1	7	-- -- -- >RT<	-- -- -- >RT<	>BUZ<
1	1	1	8	-- -- -- >>RT<<	-- -- -- >>RT<<	>>BUZ<<

BK: black
BN: brown

BU: blue
GN: green

GY: grey
WH: white

YE: yellow

IO-LINK LED SIGNAL DEVICES SPECIFICATIONS

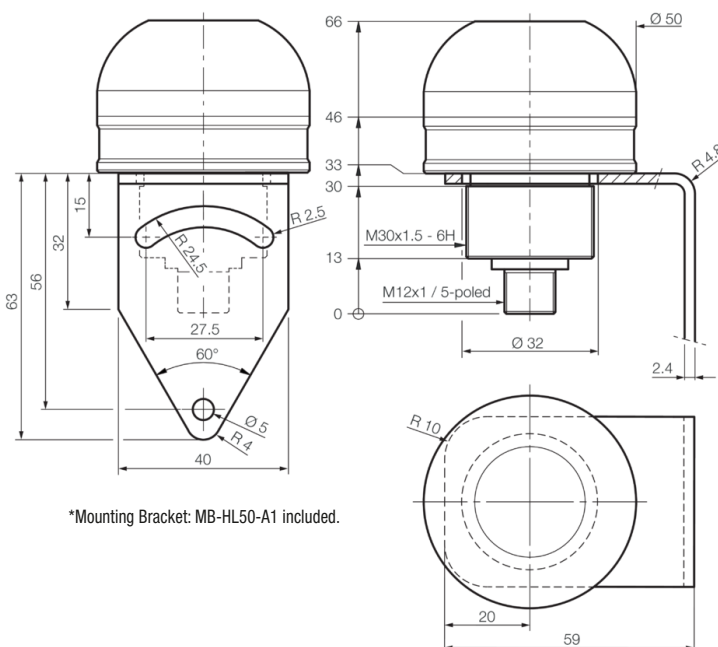
HL50-IOL-M12



DIAMETER	50 mm
LIGHT SOURCE	LED
AVAILABLE COLORS	
OPERATING VOLTAGE	18-30 V DC
CURRENT DRAW - LED @ 24 V DC	75 mA
INPUT TYPE	PNP
CONNECTION	5 Pin M12 A-coded quick connect
OPERATING TEMPERATURE	0 °C to +50 °C
IP RATING	IP67
HOUSING MATERIAL	Aluminum
LENSE MATERIAL	Polycarbonate
IO-LINK	IO-Link (V1.1, COM2 38.4 kBd, 2,300 µs)



Dimensions



*Mounting Bracket: MB-HL50-A1 included.

M12 QD

Operating mode: External trigger					
	TRIG 1	TRIG 2	TRIG 3	Pre-Set	Factory setting
BN 1 ⊕	0	0	0	1	Off
WH 2 Trigger 1	1	0	0	2	Red
	0	1	0	3	Green
BK 4 Trigger 3	1	1	0	4	Yellow
	0	0	1	5	Blue
BU 3	1	0	1	6	Red blinking
	0	1	1	7	Green blinking
GY 5 Trigger 2	1	1	1	8	Yellow blinking

All Trigger Inputs have a delay ~50 ms.
Pre-sets can be defined via IO-Link.

BK: black
BN: brown

BU: blue
GY: grey

WH: white



IO-LINK LED SIGNAL DEVICES SPECIFICATIONS

HLSP

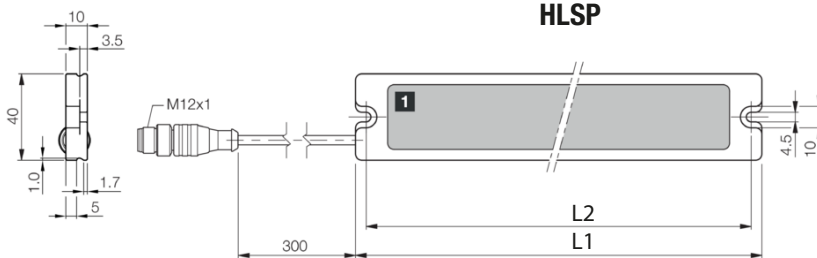


HLSI

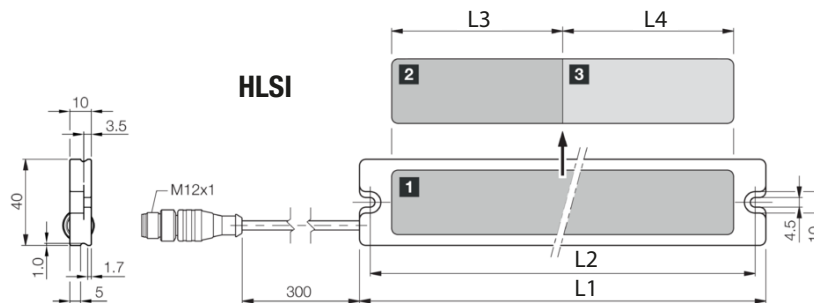


DIAMETER	((125 HLSP only), 250, 480, 700, 910) x 40 x 10	
LIGHT SOURCE	LED	
AVAILABLE COLORS	Indicator Segment (RGB), White	
OPERATING VOLTAGE	18-30 V DC	
CURRENT DRAW	LED @ 24 V DC	
	125mA/210mA/380mA/560mA/730mA	305mA/650mA/1100mA/1520mA
ILLUMINATED LENGTH	95/220/440/660/870	220/440/660/870
INPUT TYPE	PNP	
CONNECTION	5 Pin M12 A-coded quick connect	
OPERATING TEMPERATURE	0 °C to +50 °C	0 °C to +40 °C
IP RATING	IP67	
HOUSING MATERIAL	Aluminum	
LENSE MATERIAL	PU, Crystal Clear (Window)	
IO-LINK	IO-Link (V1.1, COM2 38.4 kBd, 2,300 µs)	

Dimensions



Model	L1	L2	Illuminated Area 1
HLSP-IOL-95-P12	125	115	95 mm x 30 mm
HLSP-IOL-220-P12	250	240	220 mm x 30 mm
HLSP-IOL-440-P12	480	466	440 mm x 30 mm
HLSP-IOL-660-P12	700	686	660 mm x 30 mm
HLSP-IOL-870-P12	910	896	870 mm x 30 mm

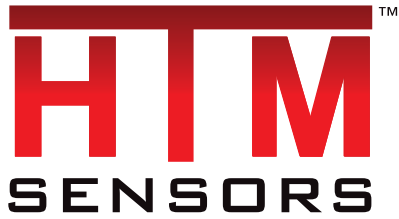


Model	L1	L2	Illuminated Area 1	Lighting Element RGB - L3 2	Lighting Element White - L4 3
HLSI-IOL-220-P12	250	240	220 mm x 30 mm	110 mm	110 mm
HLSI-IOL-440-P12	480	466	440 mm x 30 mm	220 mm	220 mm
HLSI-IOL-660-P12	700	686	660 mm x 30 mm	220 mm	440 mm
HLSI-IOL-8700-P12	910	896	870 mm x 30 mm	220 mm	650 mm



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1 XB-C100BK + XB-C101BK

XB-C100-BK



Upper Connector

(M30 x 1.5 upper thread & M20 x 1.5 lower thread)

XB-C101-BK



Lower Connector

(M20 x 1.5 inner M30 x 1.5 external)

2 XB-E60, XB-E150, XB-E300, XB-E600 (60 mm, 150 mm, 300 mm, 600 mm)



Model	Length (mm)	Material Color
XB-E60-BK	60	Aluminum, Black
XB-E150-BK	150	Aluminum, Black
XB-E300-BK	300	Aluminum, Black
XB-E600-BK	600	Aluminum, Black

3 XB-H100 Plate, XB-P100 Swivel base, XS-C100 L-Bracket, XS-C101+XS-C110 Bracket Kit

XB-H100-BK



XB-P100-BK



XS-C100



XS-C101+XS-C110



For White, change BK to WH



MODULAR LED TOWER LIGHTS

	Model	Buzzer	- Segments	Colors	- Connection	/ Special Options
Example Part Number	HLT70	B	- S3	RYG	- 2M	/ WH=White
Options Available	HLT70=70 mm dia tower light HLT50=50 mm dia tower light	Blank=without Buzzer B=with Buzzer	- S1= 1 Segment S2= 2 Segment S3= 3 Segment S4= 4 Segment S5= 5 Segment (no buzzer option)	R=Red / Y=Yellow / G=Green / B=Blue / W=White *List colors from top to bottom Segments	- 2M=Pre-wired Cable Length P12=M12 Pigtail* *3 stack without Buzzer is M12 4-Pin 3 segment with Buzzer and 4 segment without Buzzer is M12 5-pin 4 segment with Buzzer and 5 segment without Buzzer is M12 8-pin	/



SIGNAL COLUMN LIGHTS

	Model	Buzzer	- Colors	- Connection	/ Special Options
Example Part Number	HLC50	B	- RYGB	- 2M	/ WH=White
Options Available	HLC50=50 mm light column	Blank=without Buzzer B=with Buzzer	- R=Red / Y=Yellow / G=Green / B=Blue	- 2M=Pre-wired Cable Length P12=M12 Pigtail* *Without Buzzer is M12 4-Pin With Buzzer is M12 5-Pin	



QUAD-COLORED LED INDICATOR LIGHTS

	Model	Buzzer	- Colors	- Connection	/ Special Options
Example Part Number	HL50	B	- RYGB	- 2M	/ WH=White
Options Available	HL22=22 mm dia dome HL30=30 mm dia dome HL50= 50 mm dia dome HL90= 90 mm dia dome	Blank=without Buzzer B=with Buzzer (HL50 only)	- R=Red / Y=Yellow / G=Green / B=Blue	- 2M=Pre-wired Cable Length P12=M12 Pigtail	



COLORED LED TOUCH BUTTONS

	Model	Function	Output Type	- Colors	- Connection
Example Part Number	HL50	T	P	- GR	- 2M
Options Available	HL50=50 mm dia dome HL30=30 mm dia dome	T=Touch TF1=Touch Function 1 TF2=Touch Function 2	P=PNP N=NPN	First colour listed is job colour, second colour is the touch colour R=Red / Y=Yellow / G=Green / B=Blue	- 2M=Pre-wired Cable Length P12=0.3 m, M12 A-Coded Pigtail

Touch Function=	Only one colour is required Job Colour Illuminated at all times while job input is active Touch Activates output
Touch Function 1=	Two colours are required Job and Touch Job Colour is illuminated while Job input is active Touch Activates the output and overrides the Job colour with the Touch colour
Touch Function 2=	Two colours are required Job and Touch Job Colour is illuminated while Job input is active Touch Activates the output If Job Input is not active and unit is touched, Touch colour is illuminated