

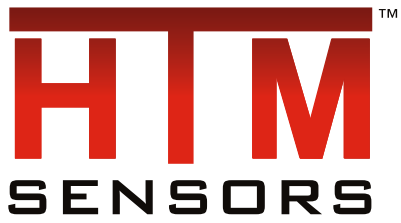


# LED Indicators & Accessories

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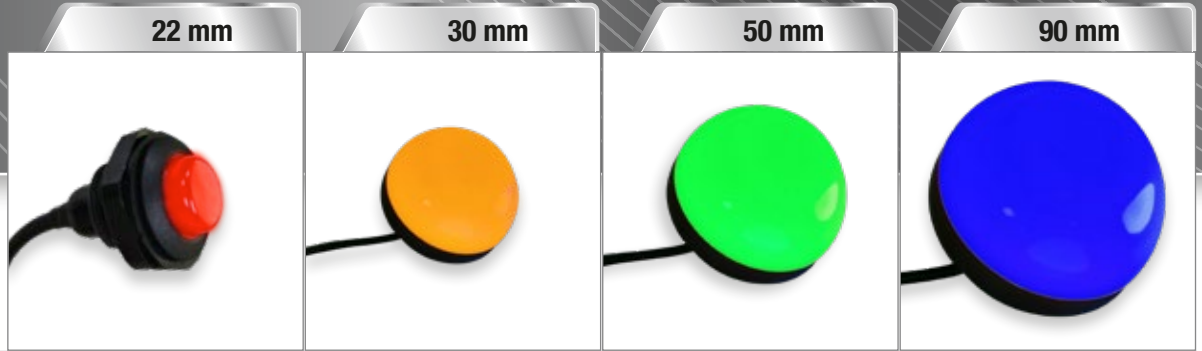




- DISPLAYS 4 COLORS STEADY ON
- COMPACT AND PATENTED DESIGN, DOMED INDICATOR, EASY TO SEE OPERATOR GUIDANCE AND EQUIPMENT STATUS
- IP69K, WATERPROOF, SHOCK PROOF, CORROSION PROOF, OIL PROOF - CAN BE USED IN EXTREMELY HARSH ENVIRONMENT
- EASY TO USE, NO OTHER CONTROLLER NEEDED

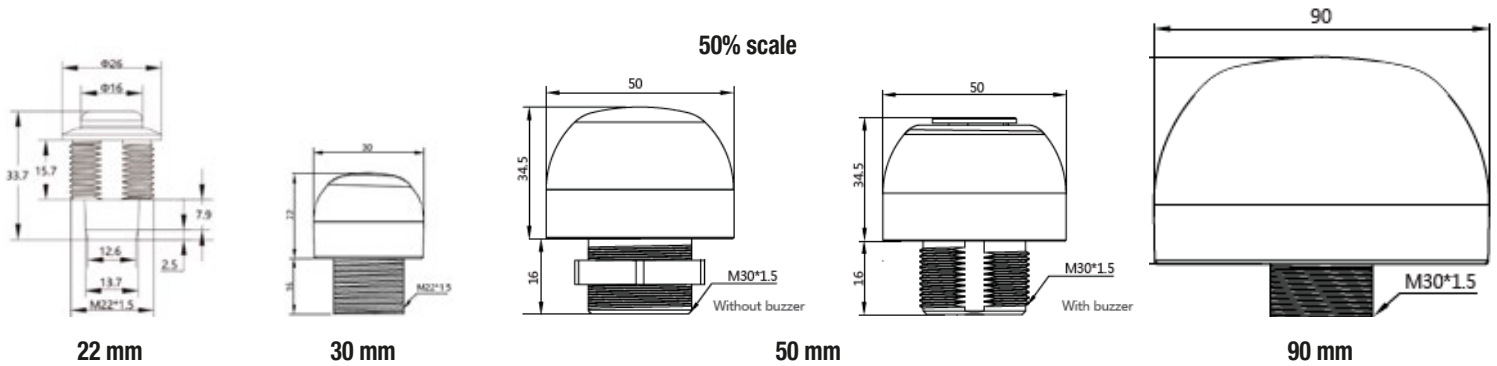


# MULTI-COLORED LED INDICATOR LIGHTS SPECIFICATIONS



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	
<b>PART NUMBERS</b>					
2 m Pre-wired	<b>R</b> <b>Y</b> <b>G</b> <b>B</b>	<b>HL22-RYGB-2M</b>	<b>HL30-RYGB-2M</b>	<b>**HL50(B)-RYGB-2M</b>	<b>HL90-RYGB-2M</b>

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



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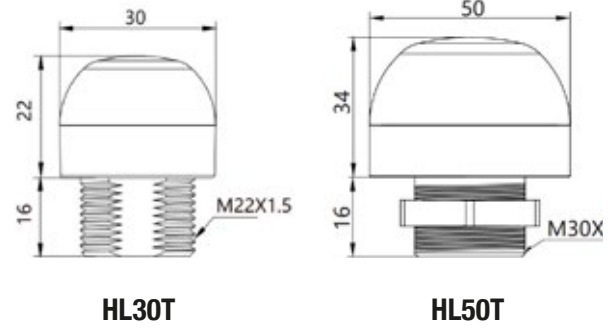
- **COMPACT DESIGN, WATERPROOF. CORROSION PROOF, OIL PROOF. CAN BE WIDELY USED IN VARIOUS INDUSTRY WORKSHOPS**
- **EXCELLENT IMMUNITY TO FALSE TRIGGERING BY WATER SPRAY, DETERGENTS, OILS AND OTHER FOREIGN MATERIALS**
- **ACTUATED WITH FINGER, HAND OR PALM OR WITH WORK GLOVES. IMPROVE PRODUCTIVITY AND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

# COLORED LED TOUCH BUTTONS SPECIFICATIONS



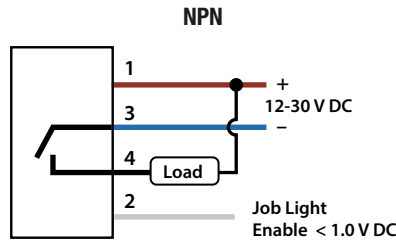
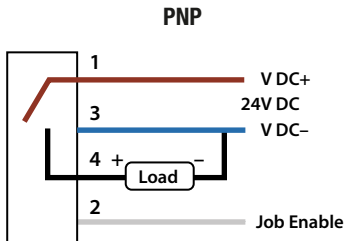
DIAMETER	30 mm	50 mm
OPERATING VOLTAGE	24 VDC +/- 10%	
OPERATING TEMPERATURE	-40 °C - +50 °C	
HOUSING MATERIAL	ABS	
INDICATION COLORS	Red/Yellow/Green/Blue	
INPUT TYPE	PNP or NPN	
OUTPUT CURRENT	120 mA	
INDICATION COLORS	Red/Yellow/Green/Blue	
RESPONSE TIME	25ms On/Off	
IP RATING	IP69K	
LENSE MATERIAL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

## Dimensions

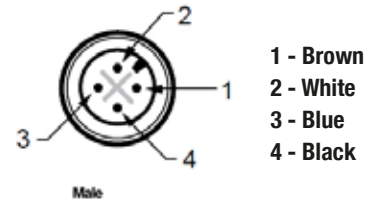


## Pre-wired

No.	Cable Color	Remark
1	Brown	V DC+
2	Gray	Job Enable
3	Blue	V DC-
4	Blk	Output
5	—	Null



## M12 QD



	Model	Function	Output Type	Colors	Connection
<b>Example Part Number</b>	HL50	T	P	GR	2M
<b>Options Available</b>	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

<b>Touch Function=</b>	Only one colour is required Job Colour illuminated at all times while job input is active Touch Activates output
<b>Touch Function 1=</b>	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
<b>Touch Function 2=</b>	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

**HTM**<sup>TM</sup>  
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**HLC50**



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

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# SIGNAL COLUMN LIGHTS 50 MM DIAMETER SPECIFICATIONS

## Specification



**HLC50 (no buzzer)**

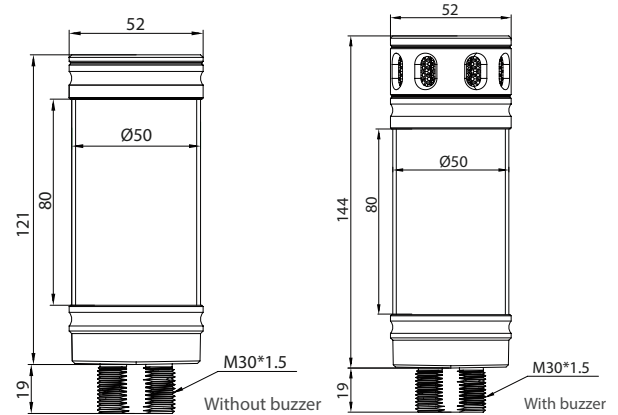


**HLC50 (buzzer)**



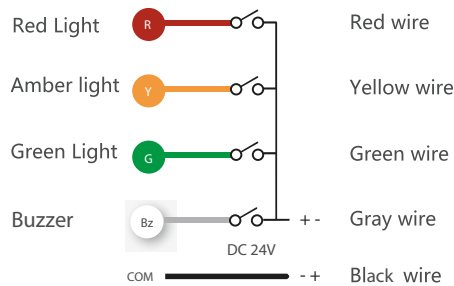
Diameter (mm)	50	
Available Colors	Red/Yellow/Green	
Buzzer	-	70db - 90db @ 2.7Khz
Operating Voltage	24 VDC +/- 10%	
Current Draw	Per Color	80 mA max
	Buzzer	25 mA max
Input Type	Bi-polar	
Response Time	On/Off 10mS	
Connection	2 m cable or M12 A-coded quick connect	
Operating Temperature	Without Buzzer -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

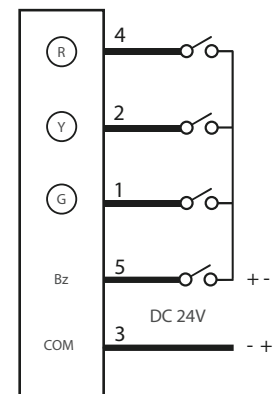
### For wire ends



### For M12 QD

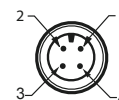
Bz is buzzer

RYG

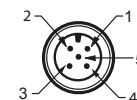


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Without buzzer



With buzzer



M12 QD Male

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SIGNAL TOWER LIGHTS  
50 MM DIAMETER

**HTM**<sup>TM</sup>  
SENSORS

**HLT50**



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

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# SIGNAL TOWER LIGHTS 50 MM DIAMETER SPECIFICATIONS

## Specification



**HLT50 (no buzzer)**

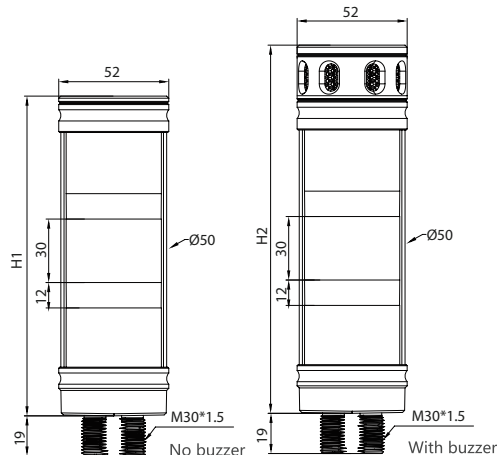


**HLT50 (buzzer)**



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	

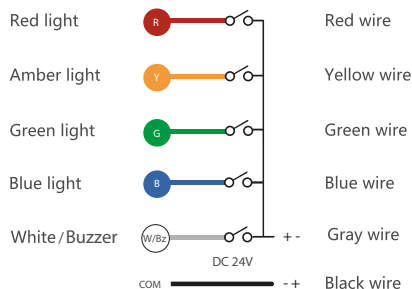
## Dimensions



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

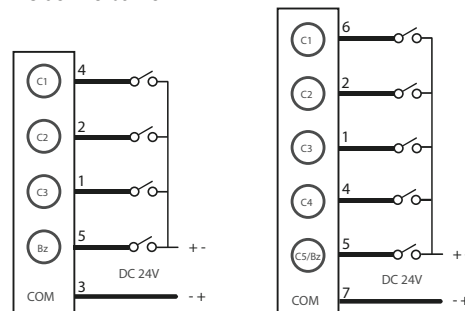


### For M12 QD

\* 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

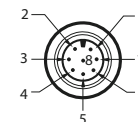
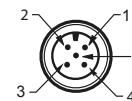
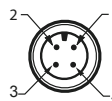


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3 stack no buzzer

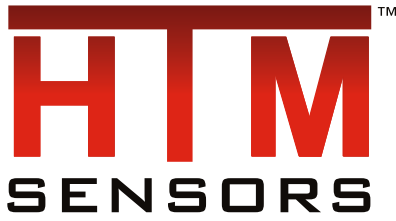
3 stack with buzzer  
4 stack no buzzer

4 stack with buzzer  
5 stack no buzzer



M12 QD Male

TOLL FREE: 1-800-644-1756



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





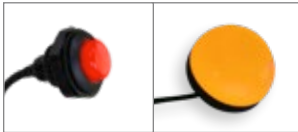
MODULAR LED TOWER LIGHTS

	Model	Buzzer	- Segments	Colors	- Connection	/ Special Options
<b>Example Part Number</b>	HLT50	B	- S3	RYG	- 2M	/ WH=White
<b>Options Available</b>	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
<b>Example Part Number</b>	HLC50	B	- RYGB	- 2M	/ WH=White
<b>Options Available</b>	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
<b>Example Part Number</b>	HL50	B	- RYGB	- 2M	/ WH=White
<b>Options Available</b>	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
<b>Example Part Number</b>	HL50	T	P	- GR	- 2M
<b>Options Available</b>	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

<b>Touch Function=</b>	Only one colour is required Job Colour Illuminated at all times while job input is active Touch Activates output
<b>Touch Function 1=</b>	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
<b>Touch Function 2=</b>	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



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Printed 03/24

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