



LED INDICATOR

ROUND TYPE LED INDICATOR



FEATURES

■ Wide variety for different uses

A broad range of models from 10 to 30 mm in diameter are available. The brightness equivalent to that of an incandescent lamp has been achieved through our original technological efforts.

■ Compatible with different types of power sources

These indicators comply with requirements of various power sources which allows connections without decreasing voltage from the control power supply for each facility.

SPECIFICATIONS (RATINGS, PERFORMANCE)

Specification \ Type	TMPN・TMPH	TSPA	HXL	JXL	PXL
Rated insulation voltage (Ui)	250V				
Mounting hole size	$\phi 10.1^{+0.2}_{-0}$	$\phi 16.2^{+0.2}_{-0}$	$\phi 22.3^{+0.4}_{-0}$	$\phi 25.5^{+0.5}_{-0}$	$\phi 30.5^{+0.5}_{-0}$
Screw size	Faston tab #110	M3×6	M3.5×8	M3.5×8	M3.5×8
Rated current	8mA	6mA	11mA	11mA	11mA, 22mA (12V only)
Rated impulse withstand voltage	$\pm 4.5\text{kV}$ 3 times for each pole (1.2 / 50μs) (Whole live part to mounting panel) $\pm 7\text{kV}$				
Recognition distance	10m (1,000 LX in illuminance on applicable panel)				
Power-Frequency withstand voltage	$2,000\text{V AC}$ 1 min. $2,500\text{V AC}$				
Operating temperature	-20 to 55°C	-20 to 55°C	-20 to 40°C		
Storing temperature	-25 to 75°C	-30 to 75°C	-25 to 65°C		
Altitude	2,000 m max.				
Weight	Approx. 15g	Approx. 20g	Approx. 20g	Approx. 20g	Approx. 30g

HOW TO ORDER

[TMPN • TMPH type]

TMPN - 110 - R B (E)

①	②	③	④	⑤
No.	Item	Code	Detail	Note
①	Basic type	TMPN	φ 10 series standard luminance type	—
		TMPH	φ 10 series high luminance type	—
②	Power supply voltage	005	5V AC / DC	
		012	12V AC / DC	
		024	24V AC / DC	
		048	48V AC / DC	—
		063	63.5V AC / DC	
		110	100 / 110V AC / DC	
③	Lens color	R	Red	LED color TMP-LED□-R
		G*1	Green	
		O	Orange	
		W*2	Milky white	
		BL*1	Blue (TMPH only)	
④	Frame color	B	Black (N1.5)	—
⑤	Lens form	(E)	Round Flat	—
		(S)	Round	

*1 For G (green) and BL (blue), 5V specifications cannot be manufactured.

*2 W (Milky white) is like the amber color of an incandescent bulb.

[TSPA type]

TSPA - AC110 - R B (E) - GPT

①	②	③	④	⑤	⑥
No.	Item	Code	Detail	Note	
①	Basic type	TSPA	φ 16	—	
②	Rated voltage	DC012	12V DC		
		DC024	24V DC		
		DC030	30V DC		
		DC048	48V DC		
		DC110	100 / 110V DC		
		DC125	125V DC	—	
		DC220	200 / 220V DC		
		AC024	24V AC		
		AC030	30V AC		
		AC048	48V AC		
		AC063	63.5V AC		
		AC063	110 / 3V*3 AC	GPT only	
		AC110	100 / 110V AC	—	
		AC110	190/3V*3 AC	GPT only	
		AC120	208 / 3V*3 AC	GPT only	
		AC125	125V AC		
		AC220	200 / 220V AC	—	
		AC240	240V AC		
③	Lens color	R	Red	LED color TS-LEDA-R	TS-LEDA-R
		G	Green		TS-LEDA-G
		Y	Yellow		TS-LEDA-Y
		O	Orange		TS-LEDA-O
		W*2	Milky white		TS-LEDA-Y
		BL	Blue		TS-LEDA-BL
		C	Clear		TS-LEDA-O
		T	Clear		TS-LEDN-CO GPT only
④	Frame color	B	Black	—	
⑤	Lens form	(E)	Round Flat	—	
		(S)	Round		
⑥	Special specification	No code	Standard	—	
		GPT*4	For grounding transformer		

*2 W (Milky white) is like the amber color of an incandescent bulb.

*3 See page B4 for operating voltage range for grounding transformer.

*4 The GPT model can select only in clear color (T); other colors cannot be selected.



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[HXL • JXL type]

HXL - 110 - R B (S)

No.	Item	Code	Detail	Note
①	Basic type	HXL	φ 22	—
		JXL	φ 25	—
②	Power supply voltage	024	24V AC / DC	—
		048	48V AC / DC	—
		063	63.5V AC / DC	(HXL Only)
		110	100 / 110V AC / DC	—
		125	125V AC / DC	—
		220	200 / 220V AC / DC	—
③	Lens color	R	Red	—
		G	Green	—
		O	Orange	Standard color
		W*2	Milky white	—
		Y	Yellow	—
		B	Blue	Special color
		P	Pure white	(HXL Only)
④	Frame color	B	Black (N1.5)	—
⑤	Lens form	(S)	Round	—

*2 W (Milky white) is like the amber color of an incandescent bulb.

[PXL type]

PXL - 110 - R B (S)

No.	Item	Code	Detail	Note
①	Basic type	PXL	φ 30	—
②	Power supply voltage	012	12V AC / DC	—
		024	24V AC / DC	—
		048	48V AC / DC	—
		110	100 / 110V AC / DC	—
		125	125V AC / DC	—
		220	200 / 220V AC / DC	—
③	Lens color	R	Red	—
		G	Green	Standard color
		O	Orange	—
		W*2	Milky white	—
		Y	Yellow	—
		B	Blue	Special color
		P*4	Pure white	—
④	Frame color	B	Black (N1.5)	—
		CR	Chrome	—
⑤	Lens form	(S)	Round	—
		(F)	Round Flat	—

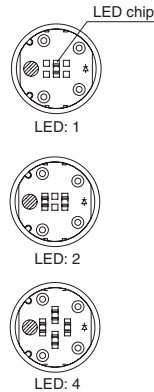
*2 W (Milky white) is like the amber color of an incandescent bulb.

*4 For P (Pure white), only for products rated for supply voltage of 24V or higher.

LED chip number for HXL / JXL / PXL LED unit

* LED unit for JXL and PXL is common (PXL-LED).

Color	HXL	JXL	PXL
R (Red)	2	4	4
O (Orange)	2	4	4
W (Milky white)	2	4	4
Y (Yellow)	2	4	4
G (Green)	1	2	2
B (Blue)	1	2	2
P (Pure white)	1	2	2

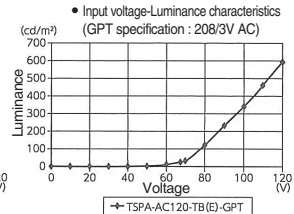
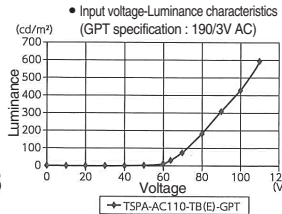
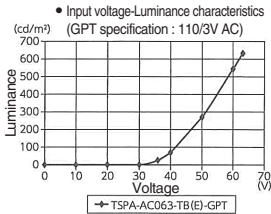


TSPA type GPT specifications for reference

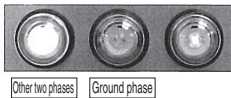
- Ground fault detection specifications for ground transformer (TSPA type GPT specifications) operational voltage range

Voltage	Operational voltage range		Rated current (At one-line ground)
	At Normal operation	At one-line ground	
AC063	36.6V AC to	63.5V AC	14mA MAX
AC110	63.3V AC to	110V AC	
AC120	69.3V AC to	120V AC	

- Lighting characteristing (TSPA type GPT specifications)



at ground ←→ at normal operation



When normal operation, all three phases light up as shown in the photo. In the event of one-line ground fault, the ground fault phase turns off and the other two phases light up brightly.

* Both surface lens and LED element are clear.

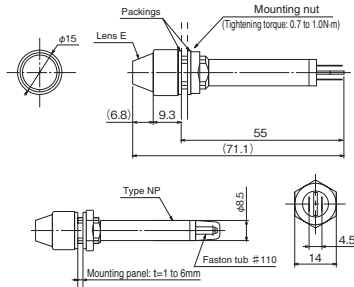


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STANDARD PRODUCTS

TMPN (φ10)



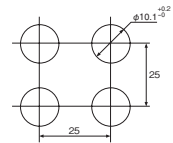
●Applicable accessories

LED lamp **TMP-LEDN**-□

Lens **TMP Lens E**-□
(Round flat type)
WMP Lens S-□
(Round type)

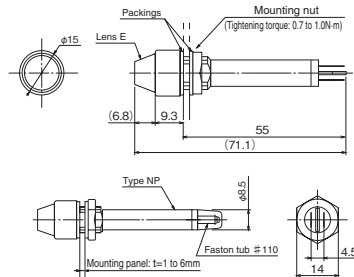
Tightening tool **TMP-Q**

●Mounting hole size



TMPH (φ10)

High-brightness type



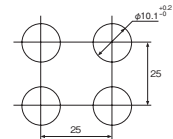
●Applicable accessories

LED lamp **TMP-LEDH**-□

Lens **TMP Lens E**-□
(Round flat type)
WMP Lens S-□
(Round type)

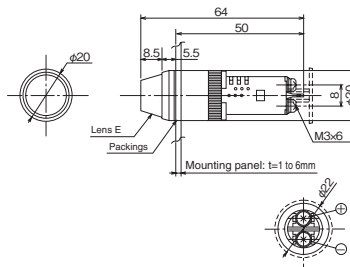
Tightening tool **TMP-Q**

●Mounting hole size



TSPA (φ16)

(GPT type is same shape)



●Applicable accessories

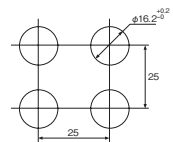
LED lamp **TS-LEDA**-□

Lens **TS-Lens E**-□
(Round flat type)
WS-Lens S-□
(Round type)

Tightening tool **Tightening jig F**

Protective cover **TS-CV**

●Mounting hole size



D ELECTRONIC DEVICES

