

8

표시등류 LAMPS



For use on a flat surface of a type 1 enclosure
File No. E242380



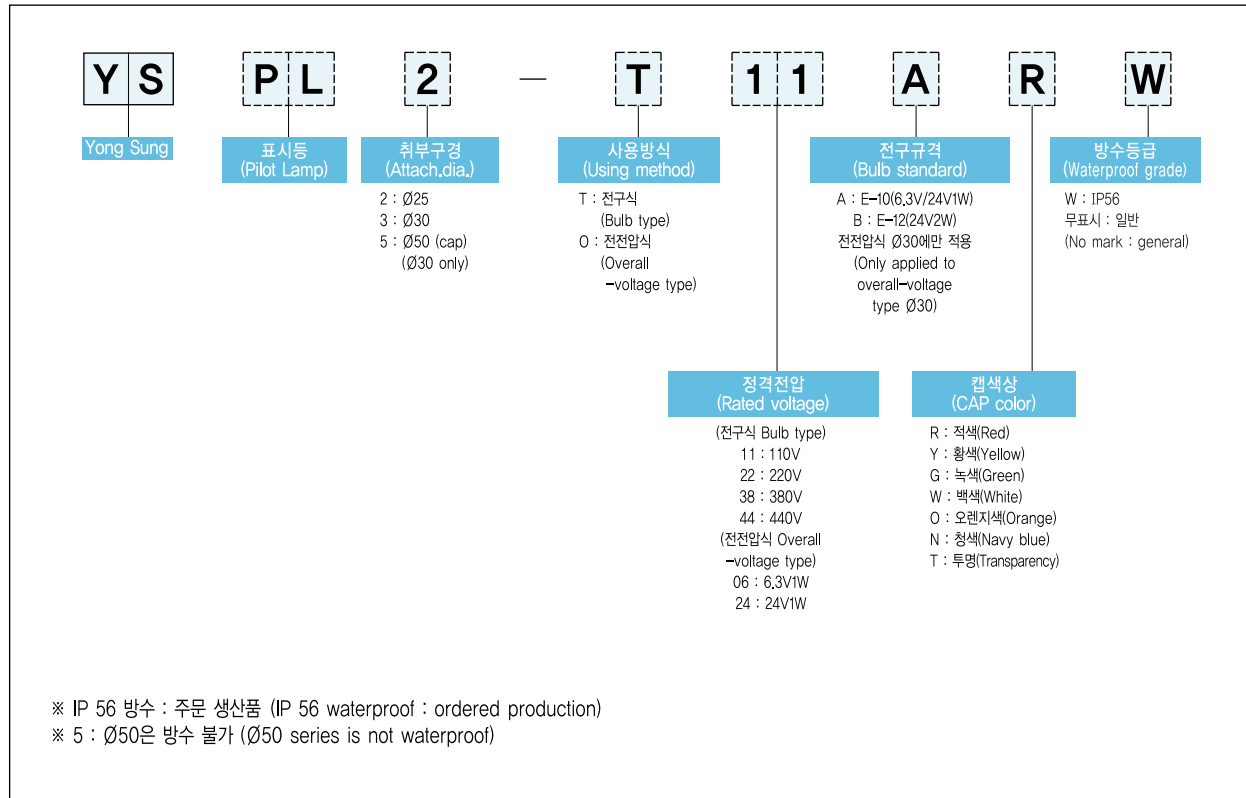
PLX-T, PLX-O 제외
(Except PLX-T, PLX-O)

8-1	원형 표시등 Pilot Lamp
8-2	표시등 (APL Ø16) Lamp (APL Ø16)
8-3	정사각 표시등 (SL 25) Square Lamp (SL 25)
8-4	정사각 표시등 (SL 33/36, BSL 33/36, CSL 33/36) Square Lamp (SL 33/36, BSL 33/36, CSL 33/36)
8-5	직사각 기명 표시등 (NRL 34, BRL 34, CRL 34) Bulletin Rectangle Lamp (NRL 34, BRL 34, CRL 34)
8-6	사각 LED 표시등 (SL 48, SL 72, ASL 48) Square LED Lamp (SL 48, SL 72, ASL 48)
8-7	직부등 LED Ceiling Lamp

8-1

원형 표시등
Pilot Lamp

형식 구분도 | Type Classification Diagram - BULB Type |



부품 재질 | Part Materials |

부품 (Part)	재질 (Materials)
몸체 (Body)	PC 수지 (Polycarbonate resin)
홀더 (Holder)	ABS 내열 수지 (Heat resistance ABS resin)
단자 (Terminal)	황동 (Brass)
볼트 (Bolt)	탄소강 (Carbon steel)
캡 (CAP)	AS 수지 (AS resin)
링 (Ring)	ABS 수지 (ABS resin)

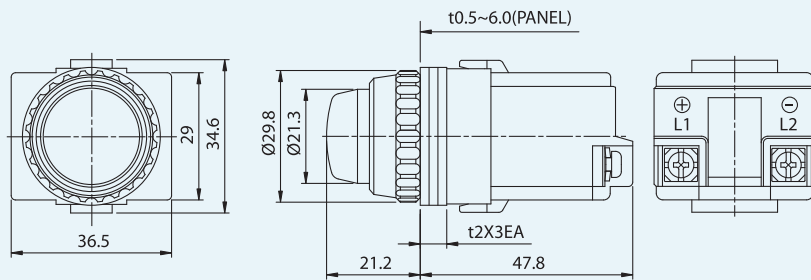
성능 개요 | Performance Summary |

절연저항 (Insulation resistance)	100MΩ 이상 (Above 100MΩ) (DC 500V. Meg)
내전압 (Withstand voltage)	AC 2,500V/min (50Hz~60Hz)
사용주위온도 (Ambient temperature)	-20℃ ~ +55℃
상대습도 (Relative humidity)	45% ~ 85%

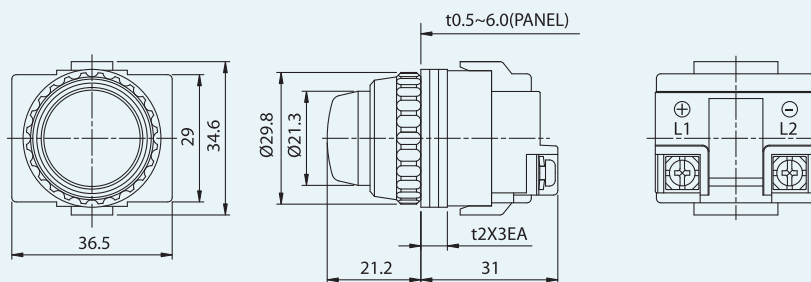
외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)

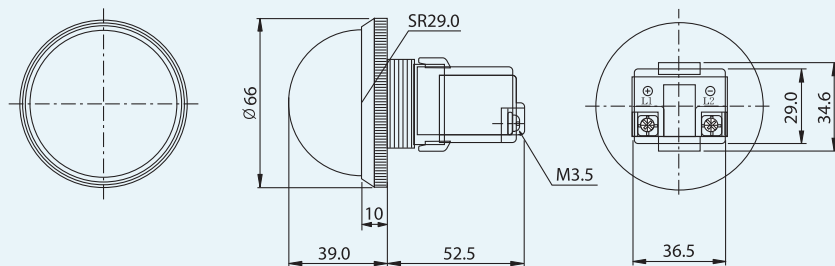
Ø25 (Bulb Type)



Ø25 (Overall-voltage Type)

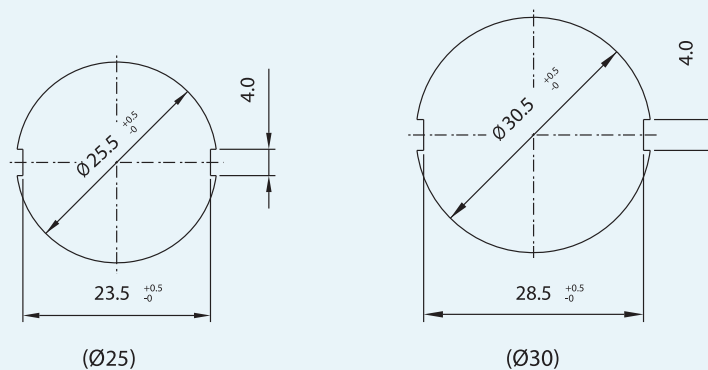


Ø50 (CAP) (Bulb Type)



판넬 가공 치수 | Cut-out Dimension |

(unit : mm)





형식 구분도 | Type Classification Diagram - LED Type |

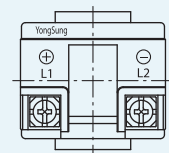
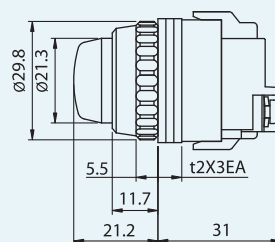
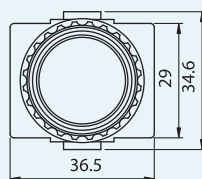
Y S	P L	2	—	A L	1 1	R	W
Yong Sung	표시등 (Pilot Lamp)	취부구경 (Attach. dia.)		사용방식 (Using method)	정격전압 (Rated voltage)	LED색상 (LED color)	방수등급 (Waterproof grade)
		2 : Ø25 3 : Ø30		AL : AC LED DL : DC LED	24 : AC/DC24V 48 : AC/DC48V 11GPT 11 : AC/DC110V 12 : AC120V/DC125V 22 : AC/DC220V 23 : AC230V 24 : AC240V 38 : AC380V 44 : AC440V	R : 적색(Red) Y : 황색(Yellow) G : 녹색(Green) W : 백색(White) O : 오렌지색(Orange) N : 청색(Navy blue) HR : 고휘도 적색(High luminance Red) HG : 고휘도 녹색(High luminance Green) HY : 고휘도 황색(High luminance Yellow)	W : IP 56 (Ø25, Ø30) 무표시 : 일반 (No mark : general)

※ DC용은 surge 전압발생우려가 있는 곳에 사용시 사전대책이 필요합니다. (기술자료참조)
 (As use for DC can exist to surge voltage, protective action is necessary before use. (Refer to technical data.))
 ※ IP 56 방수 : 주문 생산품 (IP 56 waterproof : Ordered production.)
 ※ 11GPT : GPT 3차 전압용 램프 (11GPT : GPT 3rd Lamp for Voltage)
 ※ 이외의 전압은 주문시양입니다. (Products with other rated voltages are order production.)

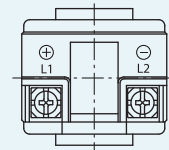
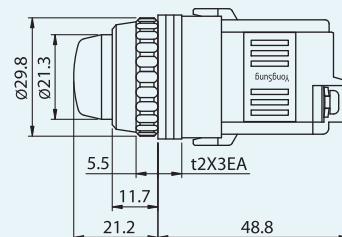
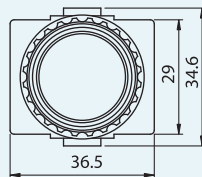
외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)

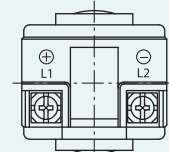
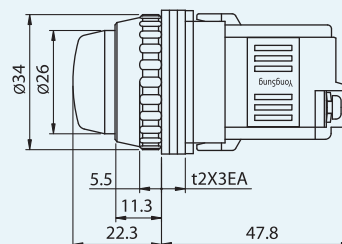
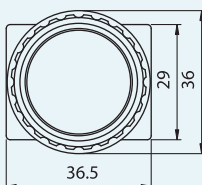
YS PL2-AL/DL24 (Ø25)



YS PL2 (Ø25)

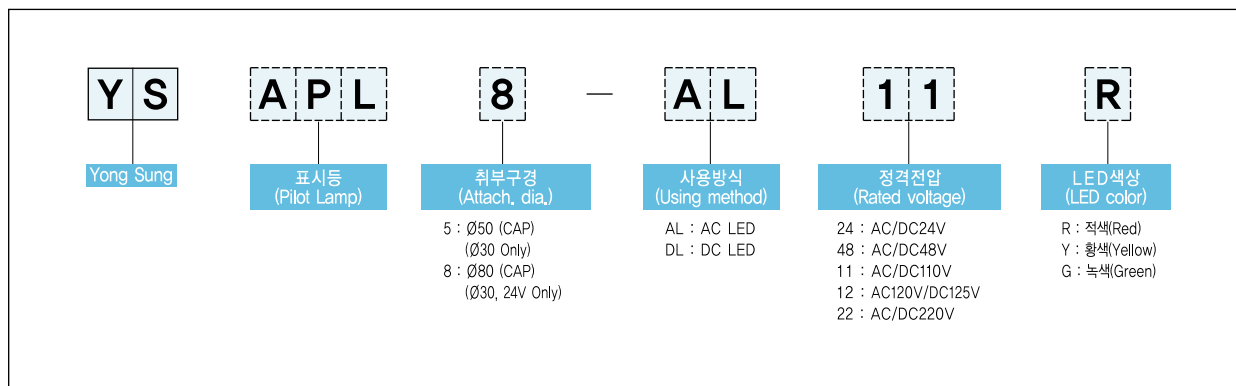


YS PL3 (Ø30)





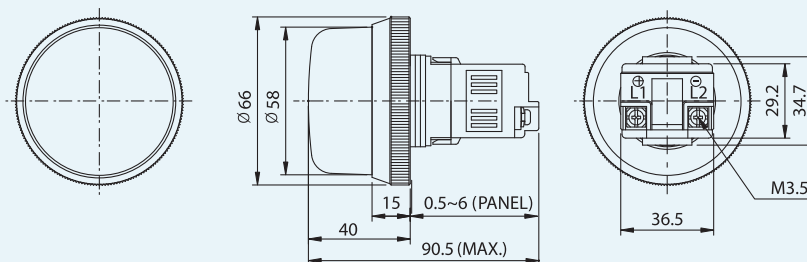
형식 구분도 | Type Classification Diagram - LED Type |



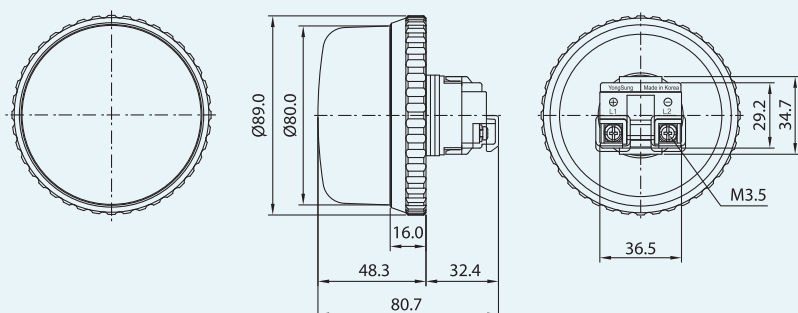
외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)

Ø50 (CAP)



Ø80



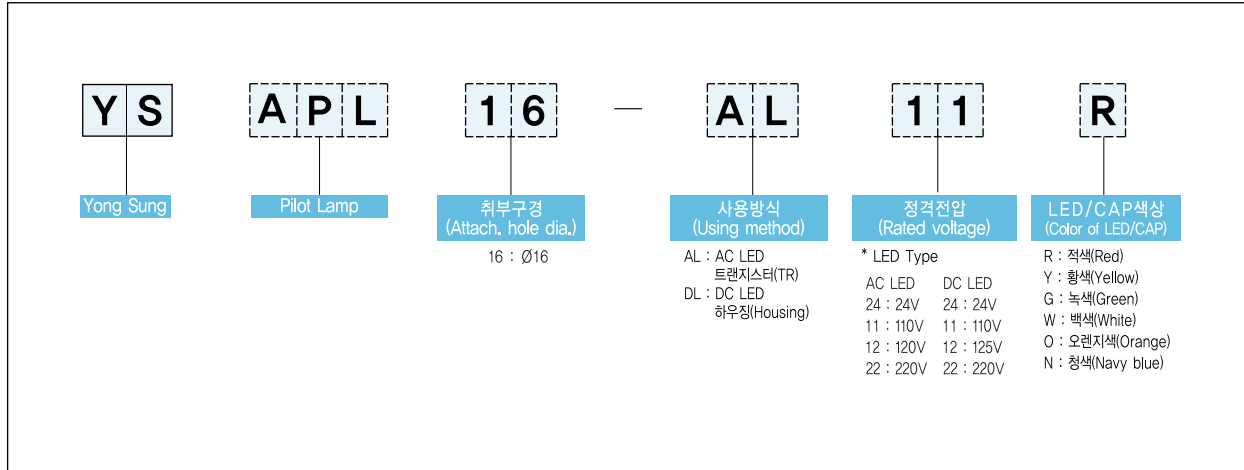
8

표시등

8-2

표시등 (APL Ø16)
Lamp (APLØ16)

형식 구분도 | Type Classification Diagram - LED Type |



제품 특징 및 구조 | Features and Structure of Product |

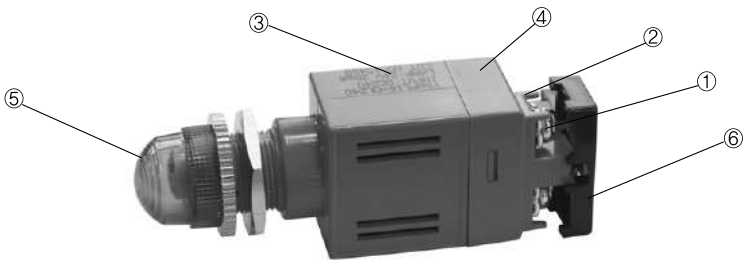
- LED LAMP 반불점등 보호구조 (전류, 전압제어 기능)입니다.
※ 설치 환경 조건에 따라 기능이 차이가 발생 될 수 있음.
- LED LAMP PUSH PULL TYPE이므로 교체시 편리합니다.
- 판넬 부착링이 2개이므로 판넬 두께에 따라 높이조정이 가능하며 견고하게 부착할 수 있습니다.
- LED LAMP semi lighting protection structure (current, voltage control function).
※ Functionality can be different depending on install environment condition.
- Easily replaceable due to using of LED LAMP PUSH PULL TYPE.
- 2 panel attaching rings enable to adjust height depending on panel thickness and can be affixed to panel impregnably.

성능 개요 | Performance Summary |

절연저항 (Insulation resistance)	100MΩ 이상 (Above 100MΩ) (DC 500V. Meg)
내전압 (Withstand voltage)	AC 2,500V/min (50Hz~60Hz)
사용주위온도 (Ambient temperature)	-20℃ ~ +55℃
상대습도 (Relative humidity)	45% ~ 85%

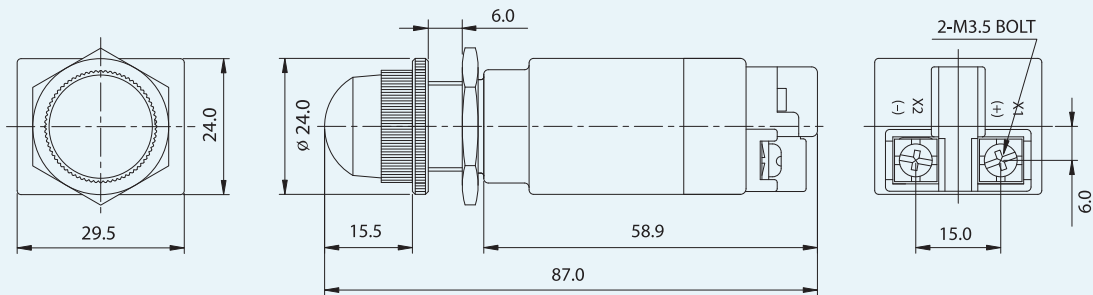
부품 재질 | Part Materials |

No	부품 (Part)	재질 (Materials)
1	나사 (Screw)	탄소강 (Carbon steel) or 스테인리스 (Stainless steel)
2	단자 (Terminal)	황동 (Brass)
3	케이스 (Case)	ABS 내열 수지 (Heat resistance ABS resin)
4	커버 (Cover)	ABS 내열 수지 (Heat resistance ABS resin)
5	캡 (Cap)	AS 수지 (AS resin)
6	보호커버 (Protection cover)	PC 수지 (Polycarbonate resin)



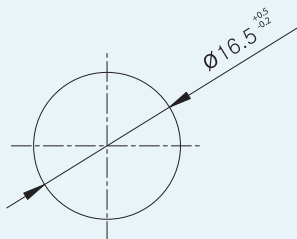
외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)



판넬 가공 치수 | Cut-out Dimension |

(unit : mm)



Square Lamp (SL 25, SL 33, BSL 33, CSL 33) Bulletin Rectangle Lamp (NRL 34, BRL 34, CRL 34)

특징 | Features |

- 정사각형과 직사각형으로 구분되어 용도에 따라 편리하게 사용할 수 있습니다.
- 고휘도 LED 램프를 적용하여 전력소모를 절감하였습니다.
- DC LED TYPE은 CHECK 단자를 적용하여 전면부의 점등 여부를 확인할 수 있습니다.
- LED Unit 및 조각면의 교체 및 유지 보수가 쉽습니다.
- LED Unit을 탈착하지 않고 캡 및 조각면을 탈부착 할 수 있습니다. (CSL 36 제외)
- LED 핀의 방향성을 무극성으로 적용하였습니다.
- Since divided into square and rectangle type, it is convenient to use according to application purposes.
- LED lamp is made up of LED which has high brightness and largely reduced consumption of electric power.
- DC LED TYPE can be verified whether front part light-up or not by applying CHECK terminal.
- It is easy to replace and repair LED Unit and marking plate.
- Can detach the cap and marking plate without detachment of LED Unit. (Except for CSL 36)
- Apply direction of LED pin as non-polarity.

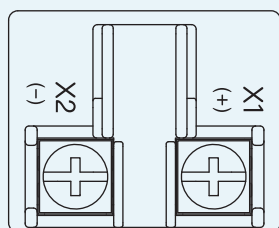
사용시 주의사항 | Remarks in Use |

- 창수가 10창 이상에 있어서 연속점등수가 창수의 40% 이상일 경우는 발열량을 고려하여 창수의 제한에 유의하십시오.
- 제품 내부 발열량 등에 있어 100% 점등 시는 8창 이하로 사용하여 주십시오.
- 패널 취급 시 집합표시등 제품본체의 중량, 배선의 전선 중량 등을 고려하여 패널 두께를 선정하십시오.
- 제품 발열을 고려하여 쿨링 장치를 별도로 사용하십시오.
- 전 점등시험은 40분 이하로 하십시오.
- 제품에서 LED Unit을 탈착할 경우 반드시 전원을 끄고 탈착하십시오.
- If successive illuminating number is above 40% display number in above 10 displays, care for limiting the number of display considering heat of light bulb.
- When illuminating 100%, in heat etc. of the products use below 8 displays.
- In panel attachment, choose panel thickness considering weight of multi pilot lamps, product body, and electric wire of wiring.
- Apply cooling device considering heat of the products.
- Do over all illuminating test within below 40min.
- When separating LED Unit from body, be sure to turn off power source.

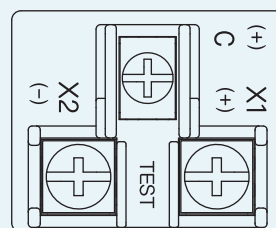
LED Unit의 정격 전압상의 주의사항 | Rated Voltage Note of LED Unit |

- LED Unit DC 정격전압은 완전직류치를 표시한 것입니다.
사용전압범위 : DC24V±10%
- LED Unit DC rated voltage indicates perfect DC value.
Applying voltage range : DC 24V ±10%

단자 극성 | Terminal Polarity |



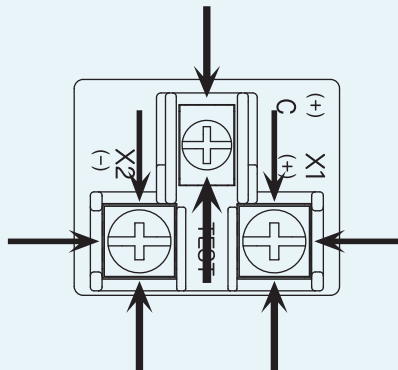
AC TYPE



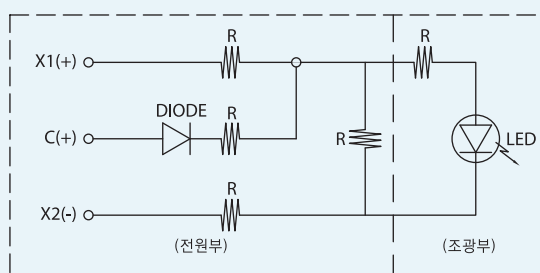
DC TYPE

CHECK 단자부의 단자 배선 주의사항 | Terminal Wiring of CHECK Terminal Part |

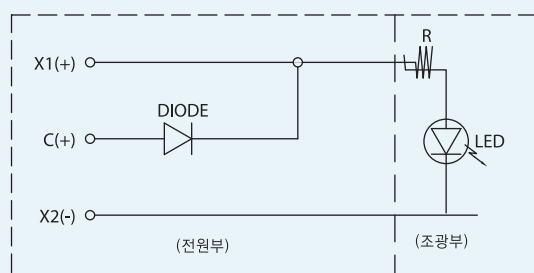
- 단자 C(CHECK 단자) 및 단자 X1은 ⊕극성, 단자 X2는 ⊖극성으로 되어 있음을 주의하십시오.
- It is consist of terminal C(check terminal) and terminal X1 is ⊕polarity, terminal X2 is ⊖polarity.



화살표는 단자배선 방향을 표시하는 것입니다. (Arrow is terminal wiring direction.)



DC 44~52V, DC 100~130V, DC 200~240V



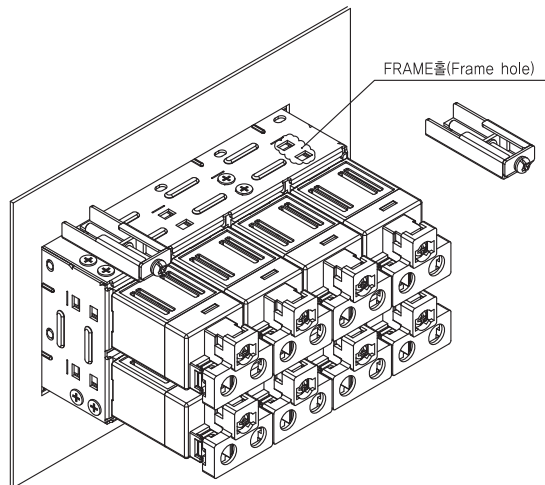
DC 22~26V

제품 장착 | Product Installation |

1) 패널에 취부 방법 (Product installation)

패널에 제품을 취부 시 본체를 패널 전면에 삽입 후 양면에 있는 부속의 취부금구를 FRAME 홀에 아래의 그림처럼 삽입하여 나사를 조여 주십시오. 취부 금구수는 제품의 단과 열에 따라 선택하여 사용하십시오.

(When attaching the product into panel, insert body into the front panel, then push accessory jointing part into the FRAME hole as following image and tighten screws. The number of jointing part is as following according to the number of display.)



2) 취부 금구수 (The number of jointing part)

열(Column) 단(Row)	1~2	3~8	9~15	16~20
1~2	2	4	6	8
3~6	4	6	8	10
7~10	6	8	10	12

※ 참고 (Reference)
일체형 몸체의 취부 금구수 2개
(1단 1열, 1단 2열, 1단 3열)
The number of jointing part
of all-in-one body : 2
(1 row & 1 Column, 1 row &
2 Column, 1 row & 3 Column)

3) 취부 금구의 예 (Example of attachment)

참고 (Reference) : ■는 취부금구임. (■ is jointing part.)

▶ 집합형 (Integrated type)

열(Column) 단(Row)	1~2	3~8	9~15	16~20
1~2				
3~6				
7~10				

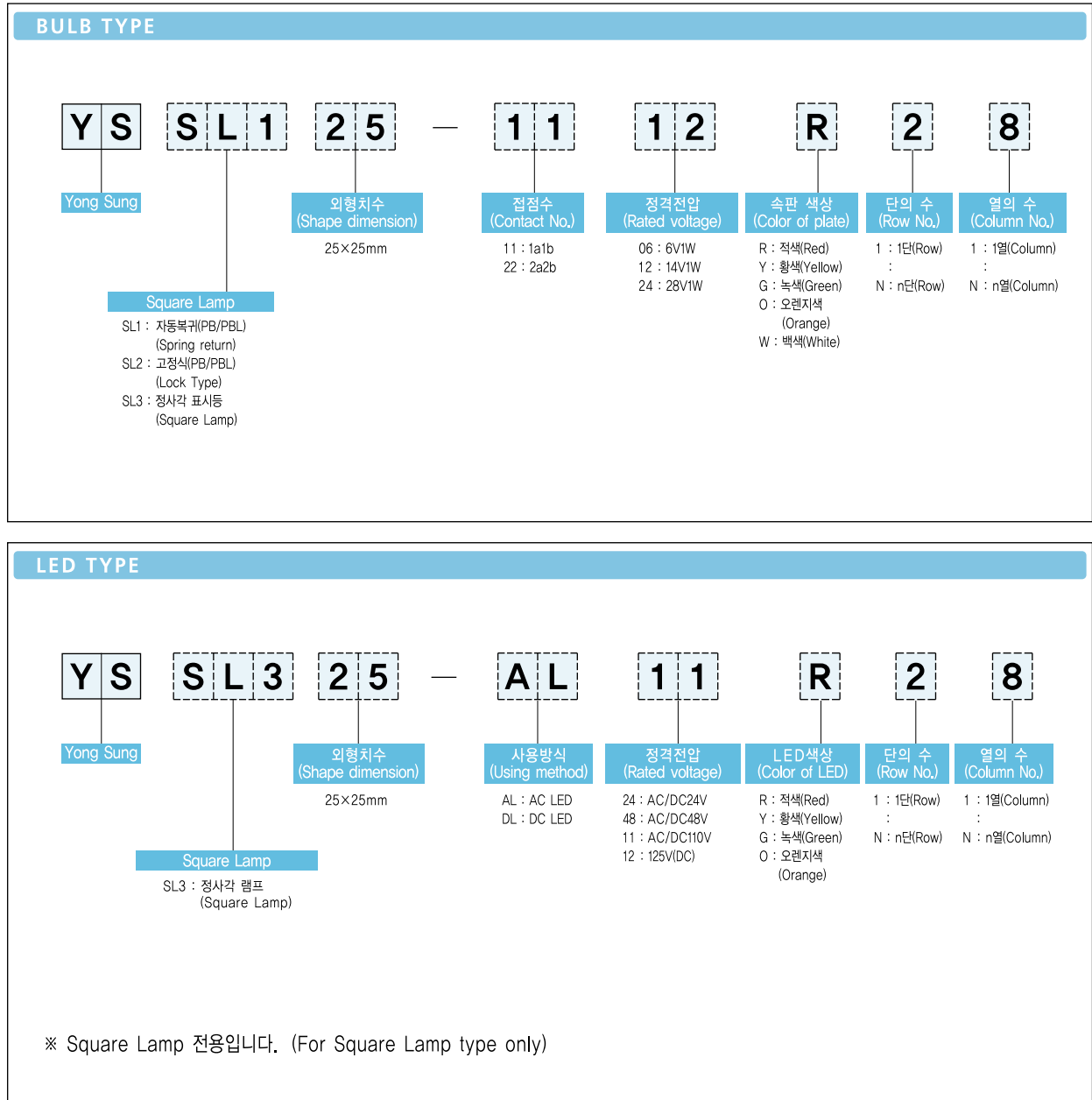
▶ 일체형 (All-in-one type)

열(Column) 단(Row)	1~3
1	

8-3

정사각 표시등 (SL 25)
Square Lamp (SL 25)

형식 구분도 | Type Classification Diagram |



사양

Specification

백열구식 | BULB Type |

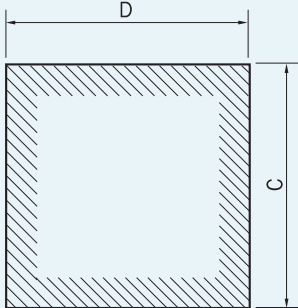
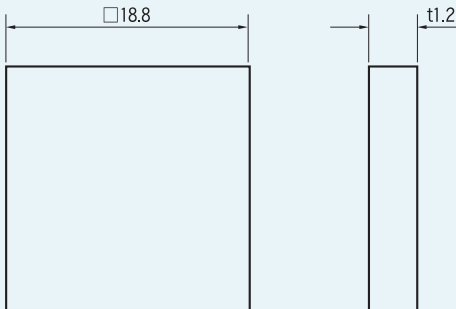
전원입력방식 (Power source)		전전압식 (Overall voltage type)		
종별 (Type)		전면조광 (Overall illumination)		
정격전압 (1차전압) (Rated voltage (Primary voltage))		AC 6V	AC 12V	AC 24V
내장전구 (Built-in Lightbulb)	정격전압 (Rated voltage)	6V1W	14V1W	28V1W
	사용전압 (Using voltage)	5~6V	10~12V	18~24V
	BASE	S5.7S		
절연저항 (Insulation resistance)		100MΩ 이상 (Above 100MΩ)		
내전압 (Withstand voltage)		1,500V/min		
사용주위온도 (Ambient temperature)		-20℃ ~ +55℃		
상대습도 (Relative humidity)		45 ~ 85%		
접점정격 (Contact rated)		AC250V 3A		

LED식 | LED Type |

종별 (Type)		단색전면조광 (Single color overall illuminating)			
정격전압 (1차전압) Rated voltage (Primary voltage)		AC/DC24V	AC/DC48V	AC/DC110V	DC125V
내장 LED (Built-in LED)	정격전압 (Rated voltage)	DC24V			
	정격전류 (Rated current)	20mA 이하 (Below 20mA)			
	발광색 (Illuminating color)	적, 녹, 황, 오렌지 (Red, Green, Yellow, Orange)			
절연저항 (Insulation resistance)		100MΩ 이상 (Above 100MΩ) (DC 500V. Meg)			
내전압 (Withstand voltage)		1,500V/min			
사용주위온도 (Ambient temperature)		-20℃ ~ +55℃			
상대습도 (Relative humidity)		45 ~ 85%			

외형 치수도 및 패널 가공 치수도 | Shape / Panel Dimension Drawing |

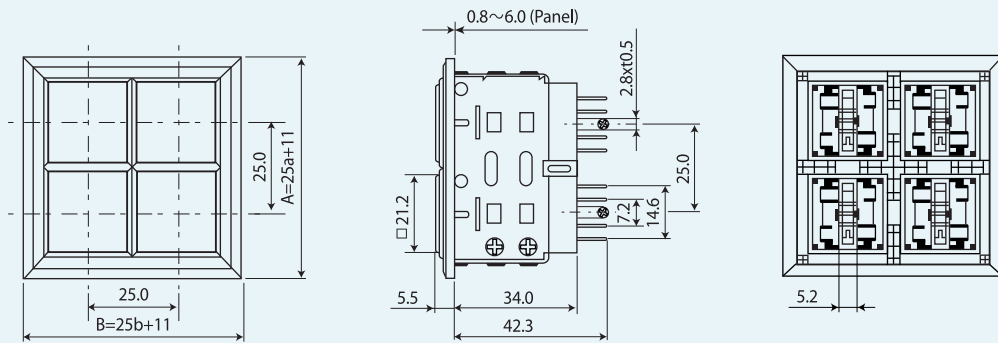
(unit : mm)

단의 수 (Row)	열의 수 (Column)		b	01	02	03	04	05	06	07	08	09	10
	외형치수 (Shape dimension)		B	36	61	86	111	136	161	186	211	236	261
	패널 가공 치수 (Cut-out dimension)		(D)	$29^{0}_{-0.5}$	$54^{0}_{-0.5}$	$79^{0}_{-0.5}$	$104^{0}_{-0.5}$	$129^{0}_{-0.5}$	$154^{0}_{-0.5}$	$179^{0}_{-0.5}$	$204^{0}_{-0.5}$	$229^{0}_{-0.5}$	$254^{0}_{-0.5}$
a	A	(C)	▶ 패널 가공 치수 (Cut-out dimension) : 열 (Column), 단 (Row) : $25n+4$ (n : number)  ▶ 조각면 SIZE (Size of marking plate) 										
01	36	$29^{0}_{-0.5}$											
02	61	$54^{0}_{-0.5}$											
03	86	$79^{0}_{-0.5}$											
04	111	$104^{0}_{-0.5}$											
05	136	$129^{0}_{-0.5}$											
06	161	$154^{0}_{-0.5}$											
07	186	$179^{0}_{-0.5}$											
08	211	$204^{0}_{-0.5}$											
09	236	$229^{0}_{-0.5}$											
10	261	$254^{0}_{-0.5}$											

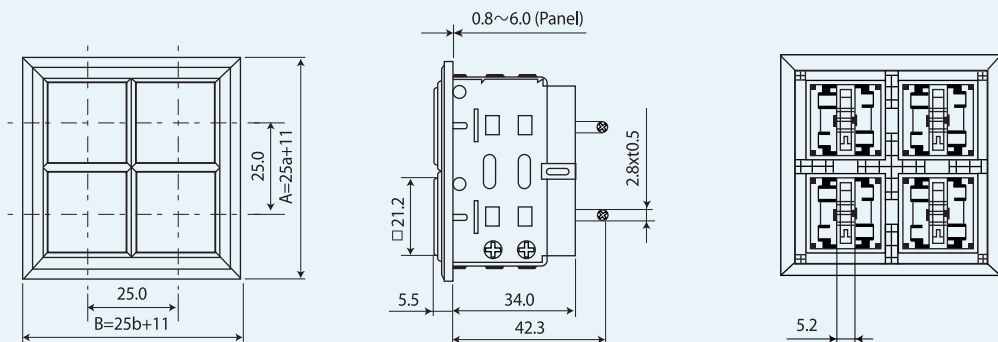
외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)

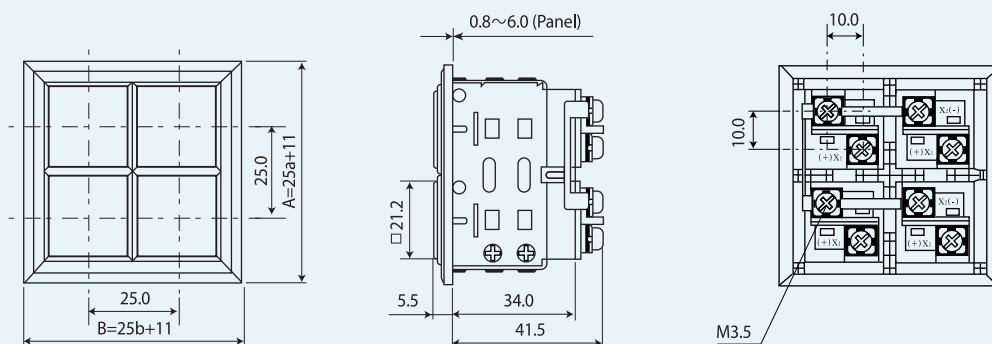
YS SL125-1124R22 (누름 버튼)



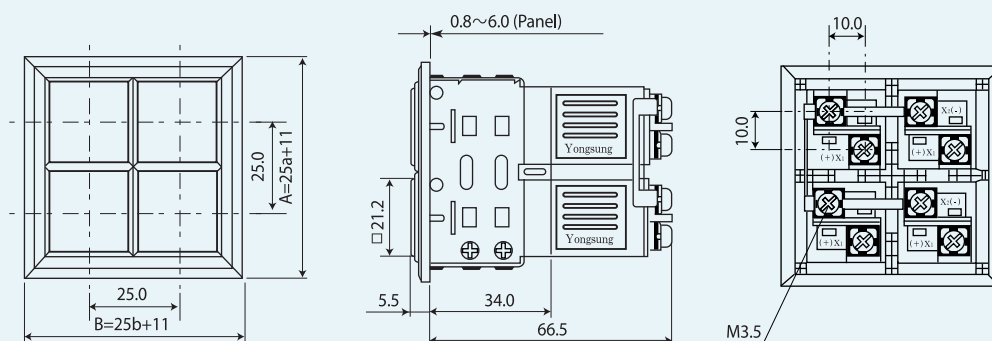
YS SL325-24R22 (전전압 BULB 표시등)



YS SL325-DL24R22 (전전압 LED 표시등)



YS SL325-DL11R22 (저항식 LED 표시등)

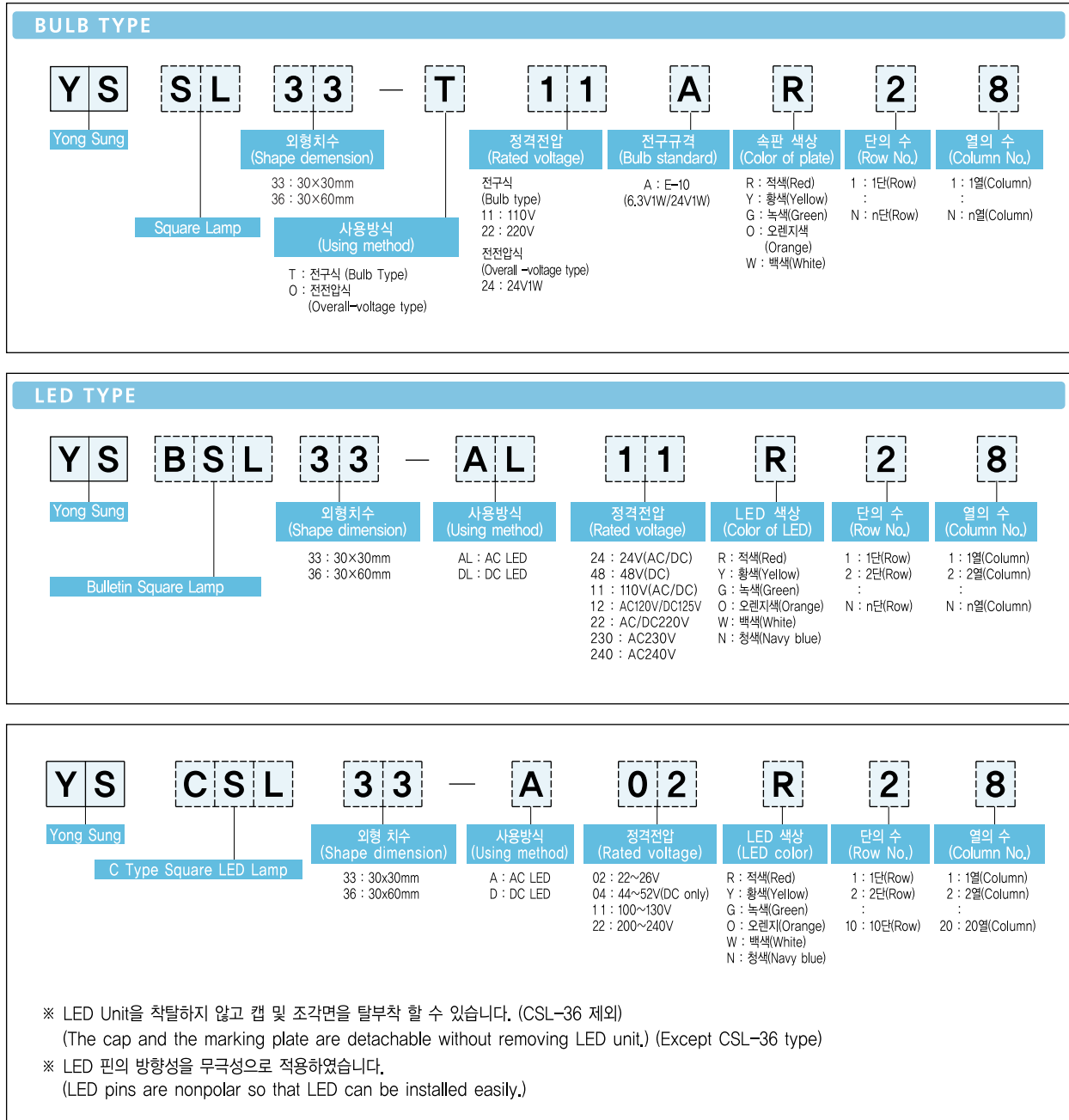


8-4

정사각 표시등 (SL 33/36, BSL 33/36, CSL 33/36)
Square Lamp (SL 33/36, BSL 33/36, CSL 33/36)

■ cULus ■ CCC ■ CE ■ IP 40

형식 구분도 | Type Classification Diagram |



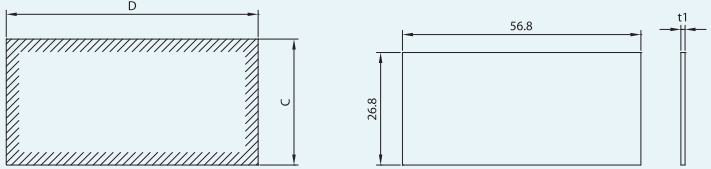
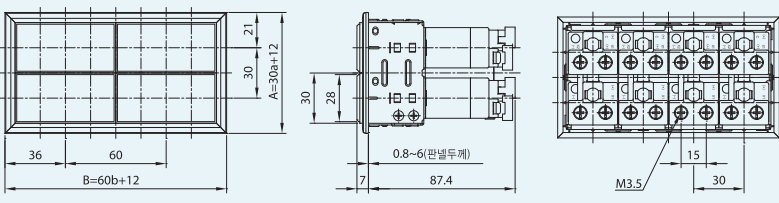
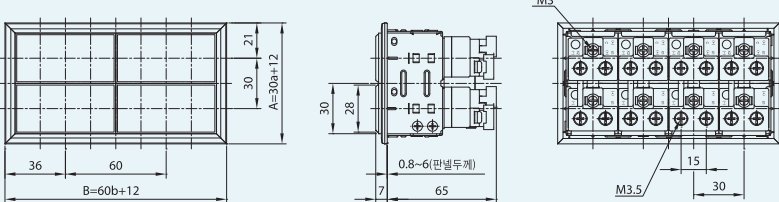
- ※ 1단 1열 연속 취부 시 간섭이 발생할 수 있습니다.
(Interference among products might come up when each 1 row & 1 column product is connected to others in a row.)
- ※ 이외의 전압은 주문사양입니다. (Products with other rated voltages are order production.)
- ※ CSL-36은 10열까지 주문 가능 (As for CSL-36, can order up to 10 column.)
- ※ AC 정격 전압인 경우 50/60Hz 모두 사용 가능 (Available to use both 50/60Hz in AC rating voltage.)
- ※ DC 타입의 단자 C(CHECK 단자)를 사용 할 경우 ⊖ 단자들의 COMMON 단자 연결이 기본이며, DC 22~26V 타입만 ⊕ 단자들의 COMMON 단자 연결이 가능 (주문사양)
(When you use terminal C(CHECK terminal) in DC type, wiring ⊖ terminals to COMMON terminal is the basic method but it is also possible to wire ⊕ terminals to COMMON terminal in DC 22~26V type.) (It is order production.)

(unit : mm)

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외형 치수도 및 패널 가공 치수도 | Shape / Panel Dimension Drawing |

(unit : mm)

단의 수 (Row)	열의 수 (Column)		b	01	02	03	04	05
	외형치수 (Shape dimension)		B	72	132	192	252	312
	패널 가공 치수 (Cut-out dimension)		(D)	$65^{0}_{-0.5}$	$125^{0}_{-0.5}$	$185^{0}_{-0.5}$	$245^{0}_{-0.5}$	$305^{0}_{-0.5}$
a	A	(C)	1) 패널 가공 치수 (Cut-out dimension) · 열 (Column) : $60n+5$ (n : number) · 단 (Row) : $30n+5$ (n : number) 2) 조각면 SIZE (Size of marking plate)					
01	42	$35^{0}_{-0.5}$						
02	72	$65^{0}_{-0.5}$						
03	102	$95^{0}_{-0.5}$						
04	132	$125^{0}_{-0.5}$	3) 외형 / 치수도 (Shape / Dimension drawing) · PCB식 (PCB Type)					
05	162	$155^{0}_{-0.5}$						
06	192	$185^{0}_{-0.5}$						
07	222	$215^{0}_{-0.5}$						
08	252	$245^{0}_{-0.5}$	· 전전압식 (Overall-voltage Type)					
09	282	$275^{0}_{-0.5}$						
10	312	$305^{0}_{-0.5}$						

사양 Specification

※ 본 카탈록 기술자료 20-1 참조 (Refer to Technical data 20-1 of this catalog.)

백열구식 | BULB Type |

전원입력방식 (Power source)		전전압식 (Overall voltage type)	전구식 (Bulb Type)
종별 (Type)		전면조광 (Overall illuminating)	전면조광 (Overall illuminating)
정격전압 (1차전압) (Rated voltage (Primary voltage))		AC/DC 24V	AC 110V, 220V
내장전구 (Built-in Lightbulb)	정격전압 (Rated voltage)	24V1W	6.3V1W
	2차전압 (Secondary voltage)	24V	5.5V
	BASE	E-10 (BASE Type)	
절연저항 (Insulation resistance)		100MΩ 이상 (Above 100MΩ) (DC 500V. Meg)	
내전압 (Withstand voltage)		AC 2,500V/min (50~60Hz)	
사용주위온도 (Ambient temperature)		-20℃ ~ +55℃	
상대습도 (Relative humidity)		45 ~ 85%	

LED식 | LED Type |

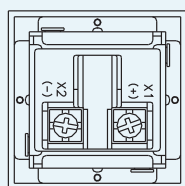
종별 (Type)		단색전면조광 (CHECK단자삽입) (Single color overall illuminating(Inserting CHECK terminal))				
정격전압 (1차전압) (Rated voltage (Primary voltage))		AC 110V	AC 220V	DC 24V	DC 110V	DC 125V DC 100V~130V
내장 LED (Built-in LED)	정격전압 (Rated voltage)	AC/DC 24V				
	정격전류 (Rated current)	20mA 이하 (Below 20mA)				
	발광색 (Illuminating color)	적색, 황색, 녹색, 오렌지색, 백색, 청색 (Red, Yellow, Green, Orange, White, Navy blue)				
절연저항 (Insulation resistance)		100MΩ 이상 (Above 100MΩ) (DC 500V. Meg)				
내전압 (Withstand voltage)		AC 2,500V/min (50~60Hz)				
사용주위온도 (Ambient temperature)		-20℃ ~ +55℃				
상대습도 (Relative humidity)		45 ~ 85%				

※ AC 정격전압은 CHECK 단자가 없습니다. (CHECK terminal is not apply for AC rated voltage.)

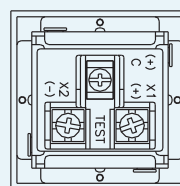
※ DC CHECK 단자 사용시는 X1 단자에 부가회로를 사용할 수 없습니다. (램프 체크시 역전압 발생)

(Additional circuit can not be used at X1 terminal when using DC terminal.) (Reverse voltage occurrence when checking lamp.)

단자 극성 | Terminal Polarity |



(AC TYPE)



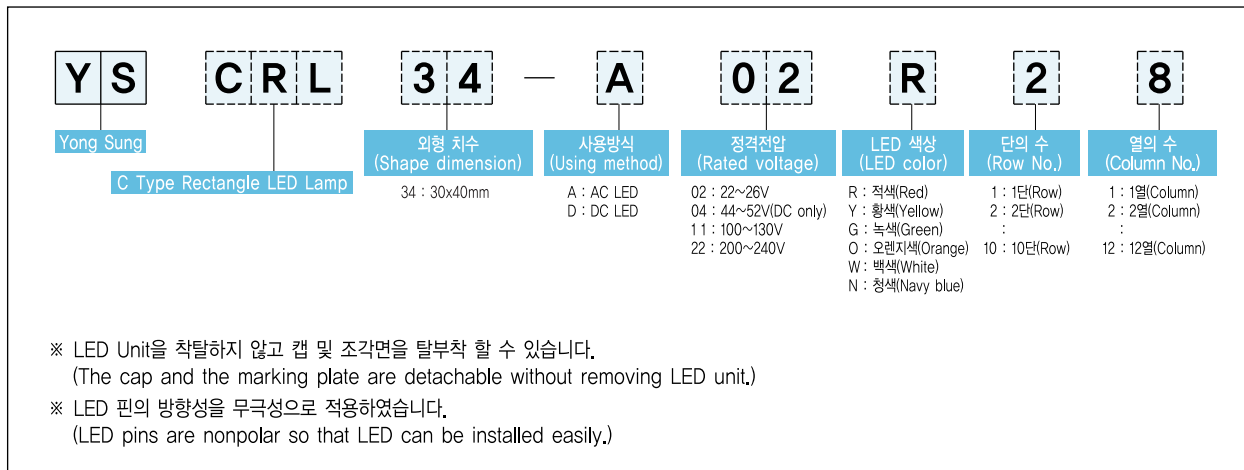
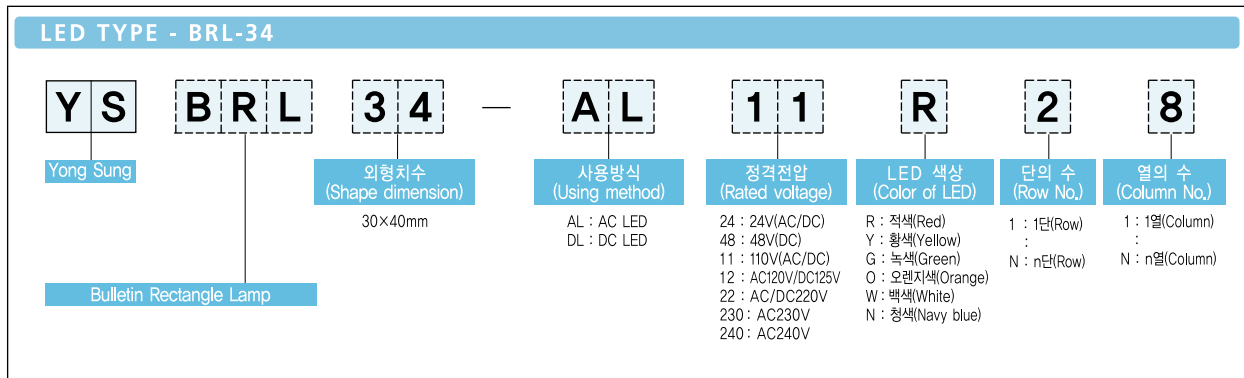
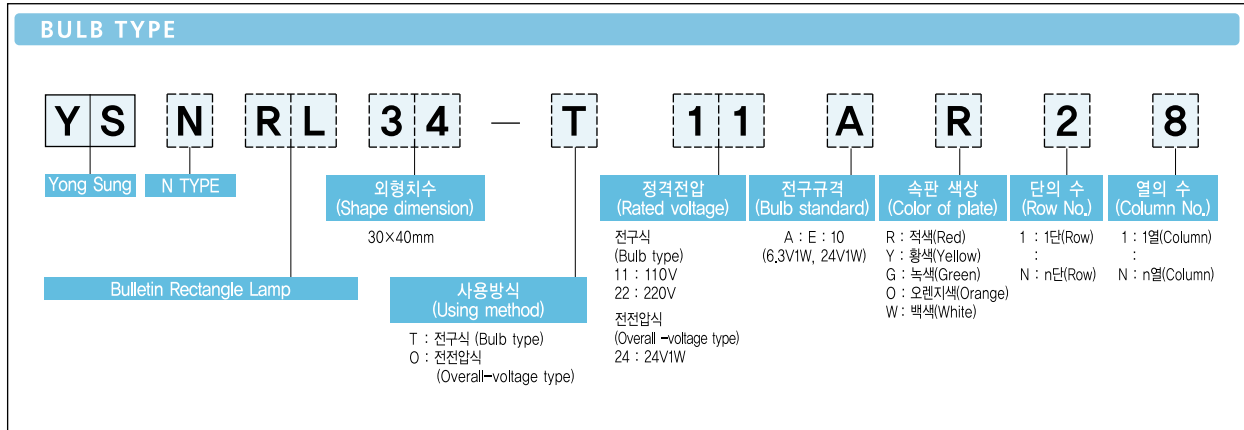
(DC TYPE)

8-5

직사각 기명 표시등 (NRL 34, BRL 34, CRL 34)
Bulletin Rectangle Lamp (NRL 34, BRL 34, CRL 34)

■ cULus ■ CCC ■ CE ■ IP 40

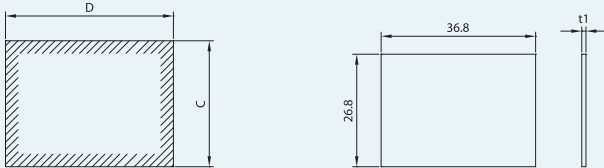
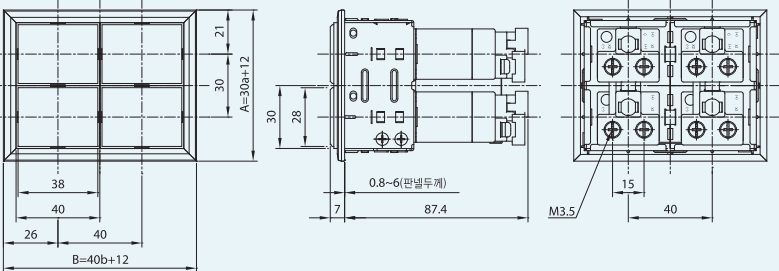
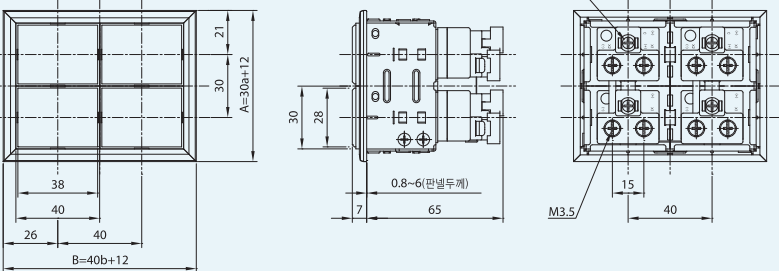
형식 구분도 | Type Classification Diagram |



- ※ 1단 1열 연속 취부 시 간섭이 발생할 수 있습니다.
(Interference among products might come up when each 1 row & 1 column product is connected to others in a row.)
- ※ 이외의 전압은 주문사양입니다.
(Products with other rated voltages are order production.)
- ※ AC 정격 전압인 경우 50/60Hz 모두 사용 가능 (Available to use both 50/60Hz in AC rating voltage.)
- ※ DC 타입의 단자 C(CHECK 단자)를 사용 할 경우 ⊖ 단자들의 COMMON 단자 연결이 기본이며, DC 22~26V 타입만 ⊕ 단자들의 COMMON 단자 연결이 가능 (주문사양)
(When you use terminal C(CHECK terminal) in DC type, wiring ⊖ terminals to COMMON terminal is the basic method but it is also possible to wire ⊕ terminals to COMMON terminal in DC 22~26V type.) (It is order production.)

외형 치수도 및 패널 가공 치수도 | Shape / Panel Dimension Drawing |

(unit : mm)

단의 수 (Row)	열의 수 (Column)		b	01	02	03	04	05	06	07	08	09	10
	외형치수 (Shape dimension)		B	52	92	132	172	212	252	292	332	372	412
	패널 가공 치수 (Cut-out dimension)		(D)	$45^{0}_{-0.5}$	$85^{0}_{-0.5}$	$125^{0}_{-0.5}$	$165^{0}_{-0.5}$	$205^{0}_{-0.5}$	$245^{0}_{-0.5}$	$285^{0}_{-0.5}$	$325^{0}_{-0.5}$	$365^{0}_{-0.5}$	$405^{0}_{-0.5}$
a	A	(C)	1) 패널 가공 치수 (Cut-out Dimension) 2) 조각면 SIZE (Size of marking plate) · 열 (Column) : $40n+5$ (n : number) · 단 (Row) : $30n+5$ (n : number) 										
01	42	$35^{0}_{-0.5}$	3) 외형 / 치수도 (Shape / Dimension drawing) · PCB식 (PCB Type) 										
02	72	$65^{0}_{-0.5}$											
03	102	$95^{0}_{-0.5}$											
04	132	$125^{0}_{-0.5}$	· 전전압식 (Overall-voltage Type) 										
05	162	$155^{0}_{-0.5}$											
06	192	$185^{0}_{-0.5}$											
07	222	$215^{0}_{-0.5}$											
08	252	$245^{0}_{-0.5}$											
09	282	$275^{0}_{-0.5}$											
10	312	$305^{0}_{-0.5}$											

사양

Specification

백열구식 | BULB Type |

전원입력방식 (Power source)		전전압식 (Overall voltage type)	전구식 (Bulb type)
종별 (Type)		전면조광 (Overall illuminating)	전면조광 (Overall illuminating)
정격전압 (1차전압) (Rated voltage (Primary voltage))		AC/DC 24V	AC 110V, 220V
내장전구 (Built-in Lightbulb)	정격전압 (Rated voltage)	24V1W	6.3V1W
	2차전압 (Secondary voltage)	24V	5.5V
	BASE	E-10 (BASE Type)	
절연저항 (Insulation resistance)		100MΩ 이상 (Above 100MΩ) (DC 500V. Meg)	
내전압 (Withstand voltage)		AC 2,500V/min	
사용주위온도 (Ambient temperature)		-20℃ ~ +55℃	
상대습도 (Relative humidity)		45 ~ 85%	

LED식 | LED Type |

종별 (Type)		단색전면조광 (CHECK단자삽입) (Single color overall illuminating(inserting CHECK terminal))				
정격전압 (1차전압) (Rated voltage (Primary voltage))		AC/DC24V	AC110V	DC110V	DC125V	AC/DC220V
내장 LED (Built-in LED)	정격전압 (Rated voltage)	DC24V				
	정격전류 (Rated current)	20mA 이하 (Below 20mA)				
	발광색 (Illuminating color)	적색, 황색, 녹색, 오렌지색, 백색, 청색 (Red, Yellow, Green, Orange, White, Navy blue)				
절연저항 (Insulation resistance)		100MΩ 이상 (Above 100MΩ) (DC 500V. Meg)				
내전압 (Withstand voltage)		AC 2,500V/min				
사용주위온도 (Ambient temperature)		-20℃ ~ +55℃				
상대습도 (Relative humidity)		45 ~ 85%				

※ AC 정격전압은 CHECK 단자가 없습니다. (CHECK terminal is not apply for AC rated voltage.)

※ DC CHECK 단자 사용시는 X1 단자에 부가회로를 사용할 수 없습니다. (램프 체크시 역전압 발생)

(Additional circuit can not be used at X1 terminal when using DC terminal.) (Reverse voltage occurrence when checking lamp.)

부 품 (Part)	재 질 (Materials)
몸체 (Body)	나일론 수지 (집합형 몸체) (Nylon resin (Integrated body))
	ABS 수지 (일체형 몸체) (ABS resin (All-in-one body))
케이스 (Case)	PC 수지 (PC resin)
단자 (Terminal)	황동 (Brass)
볼트 (Bolt)	탄소강 (Carbon steel)
캡 (Cap)	아크릴 수지 (Acrylic)

8-6

사각 LED 표시등 (SL 48, SL 72, ASL 48)

Square LED Lamp (SL 48, SL 72, ASL 48)

특징 | Features |

- 3색 LED 방식 (적색, 녹색, 황색)
- 매우 쉬운 스냅인 방식
- LED 램프는 전력소모도 절감되고 조도도 보다 밝은 고휘도 LED 적용
- 3 Color LED (Red, Green, Yellow)
- Ultra simple snap-in mounting
- LED Lamp is made up of LED which has high brightness and large reduced consumption of electric power.

사용시 주의사항 | Remarks in Use |

- 단자의 극성에 주의 하십시오. (공통단자는 음극임)
- DC 정격전압은 완전직류치를 표시한 것입니다.
- Note polarity of terminal in wiring. (Common terminal is negative polarity.)
- DC rated voltage indicates perfect DC value.

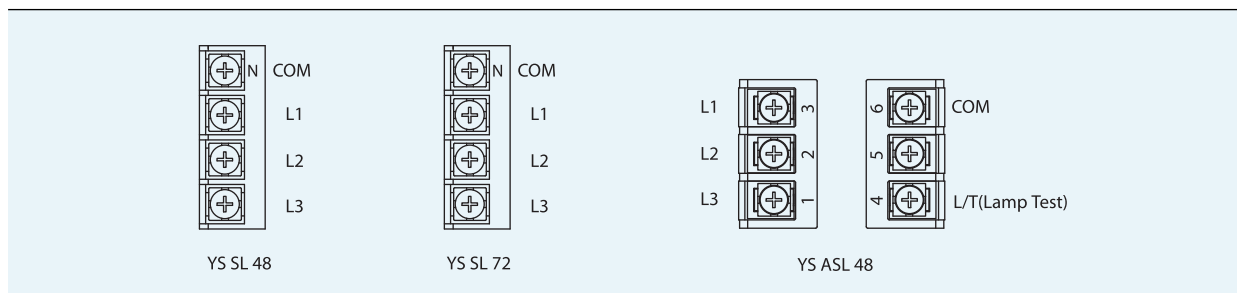
성능 개요 | Performance Summary |

정격전압 (1차전압) (Rated voltage (Primary voltage))	AC 110V	AC 220V	DC 24V	DC 110V	DC 125V	DC 100V~130V
발광색 (Illuminating color)	적색, 녹색, 황색, 오렌지색 (Red, Green, Yellow, Orange)					
정격전류 (Rated current)	20mA 이하 (Below 20mA)					
절연저항 (Insulation resistance)	100MΩ 이상 (above 100MΩ (DC 500V. Meg))					
내전압 (Withstand voltage)	AC 2,000V/min					
사용주위온도 (Ambient temperature)	-20℃ ~ +55℃					
상대습도 (Relative humidity)	45 ~ 85%					

부품 재질 | Part Materials |

부품 (Part)	재질 (Materials)
홀더 (Holder)	아세탈 수지 (Acetal resin), 나일론 수지 (Nylon 6 resin)
케이스 (Case)	아세탈 수지 (Acetal resin), ABS 수지 (ABS resin)
단자 (Terminal)	황동 (Brass)
볼트 (Bolt)	탄소강 (Carbon steel)

결선 방법 | Connection Method |



형식 구분도 | Type Classification Diagram |

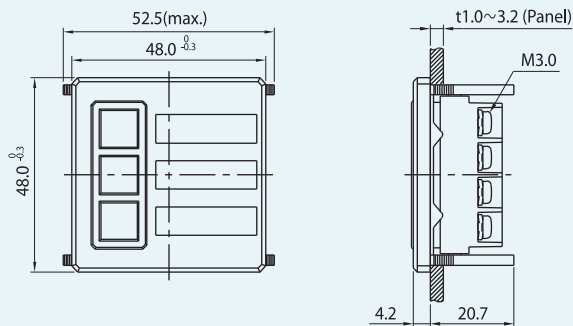
Y S	S L	4 8	—	A L	1 1
Yong Sung	Square Lamp	외형치수 (Shape dimension)		사용방식 (Using method)	정격전압 (Rated voltage)
		48 : 48×48 72 : 72×72		AL : AC LED DL : DC LED	AC LED DC LED 11 : 110V 24 : 24V 22 : 220V 11 : 110V 12 : 125V

※ 기본 배열 색상은 녹색, 적색, 황색입니다. (Basic color is Green, Red and Yellow.)
 ※ DC 48V, AC 120V, AC 240V는 주문사양입니다.. (Order specification type for DC 48V, AC 120V, AC 240V)

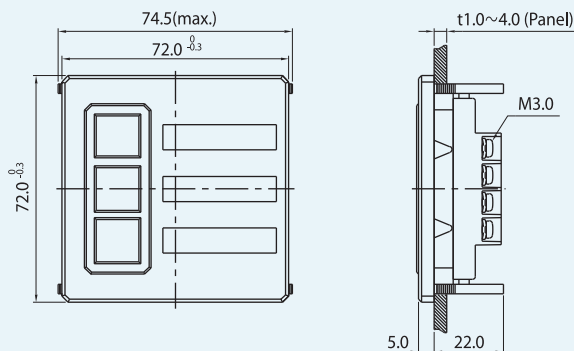
외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)

YS SL 48

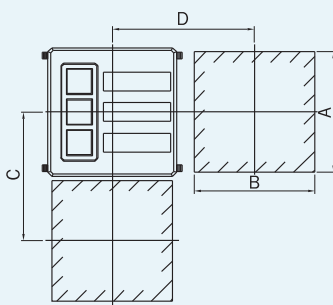


YS SL 72



패널 가공 치수 | Cut-out Dimension |

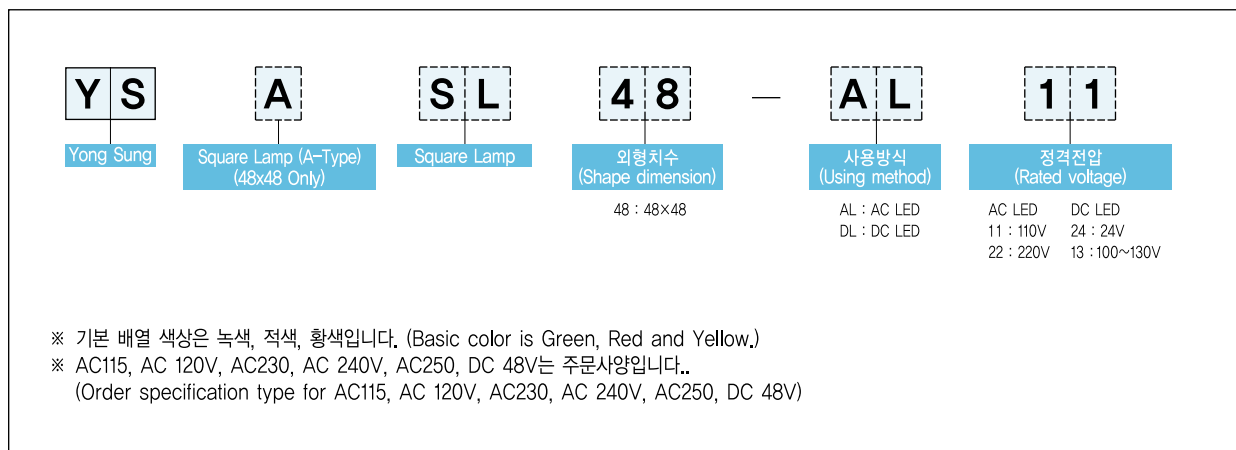
(unit : mm)



▶ 치수구분표

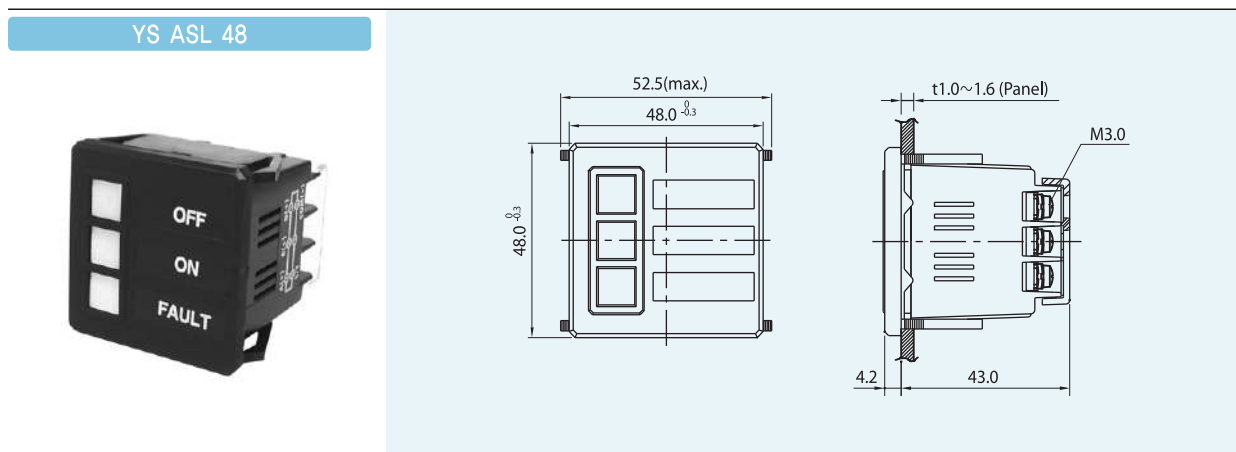
	A	B	C	D
SL 48	45 ⁰ _{-0.5}	45 ⁰ _{-0.5}	48.0(Min)	53.0(Min)
SL 72	67 ⁰ _{-0.5}	67 ⁰ _{-0.5}	72.0(Min)	76.0(Min)

형식 구분도 | Type Classification Diagram |



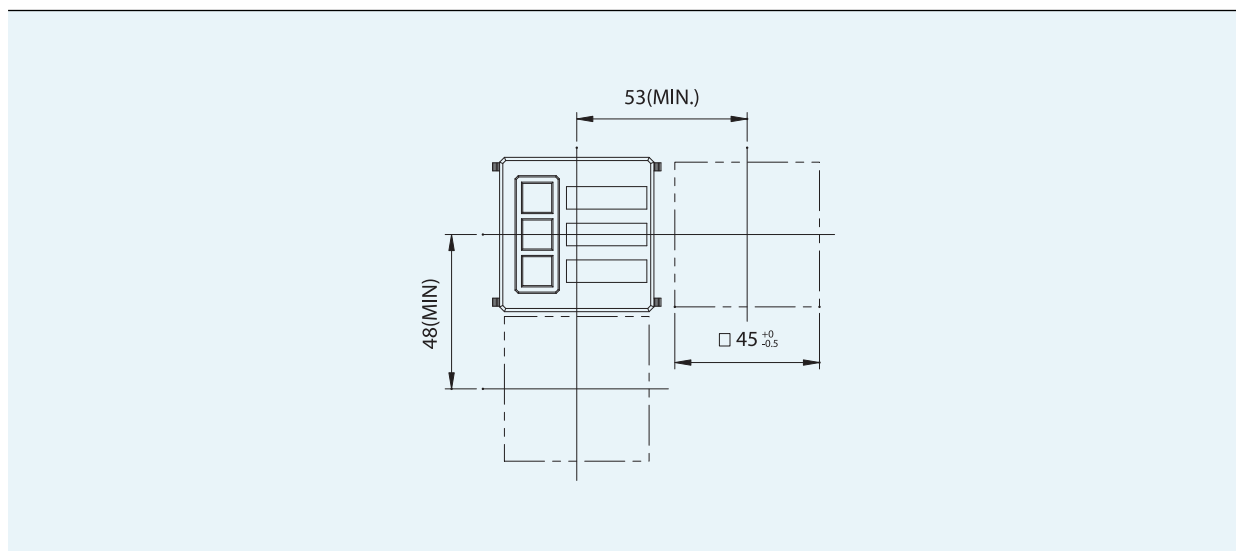
외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)



판넬 가공 치수 | Cut-out Dimension |

(unit : mm)



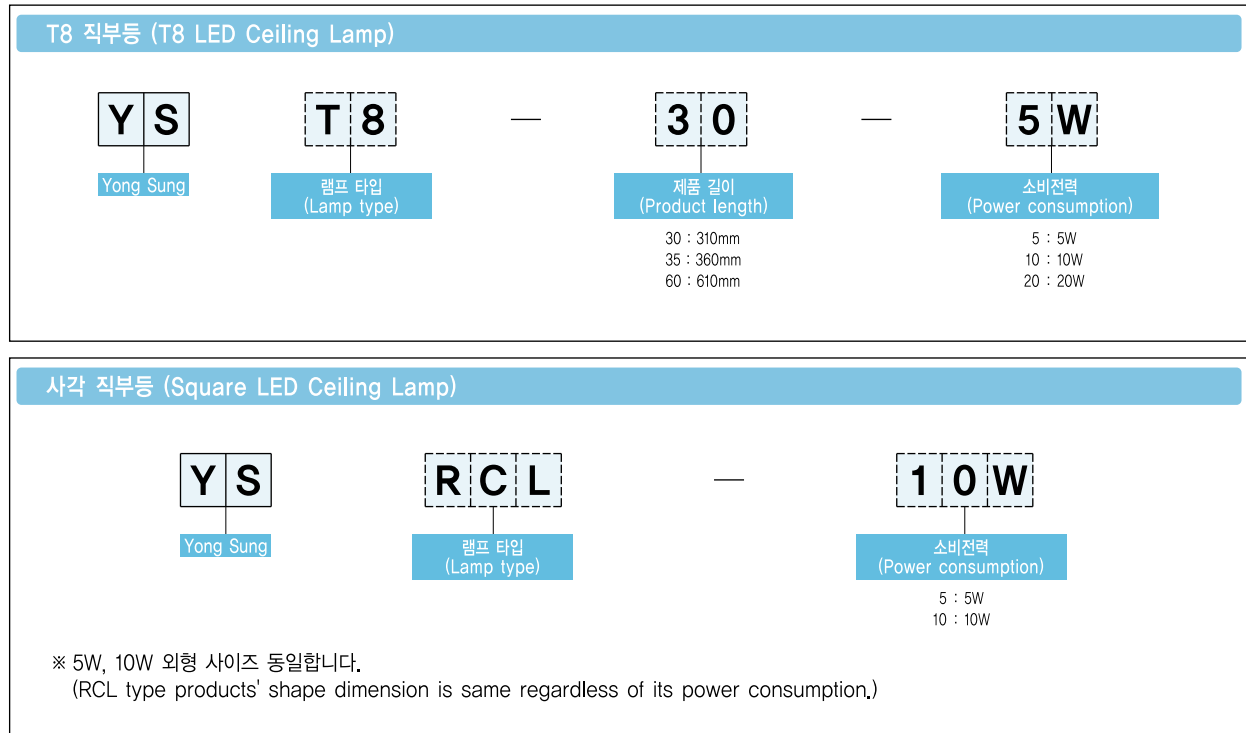
8-7

직부등

LED Ceiling Lamp



형식 구분도 | Type Classification Diagram |



용도 | Application |

- 직부등은 높은 조명 효율과 뛰어난 연색성을 가진 제품으로서 긴 수명과 일정한 광속 이상을 가진 LED 조명등으로 Switchgear Panel 내부에 적합한 조명등입니다.
- It is appropriate to use inside Switchgear Panels due to its high lighting efficiency, great color rendering and long life expectancy.

특징 | Features |

- 고휘도 LED칩 사용하여 기존 직부등에 비해 매우 밝음.
- 전원 단자대 구조와 충전부 커버 일체화. (배선부 작업성 및 안전성 향상)
- 부착 취부에 대한 최적 조건. (브라켓 부착방식)
- 전원 공급 장치 내장형.
- By using high luminance LED chip, it is greatly brighter than the existing LED panel light product.
- Integration of structure of terminal block and live part cover. (Increases usability of wiring work and stability)
- Optimum condition for attachment. (Bracket attachment method)
- Power supply device built-in type.

성능 개요 | Performance Summary |

형식 (Type)	YS T8-30-5W	YS T8-35-10W	YS T8-60-20W	YS RCL-5W	YS RCL-10W
정격전압(V) (Rated voltage)	AC220 50/60Hz				
허용전압(V) (Allowable voltage)	AC100V~240V 50/60Hz, DC100V~240V				
정격전류(mA) (Rated current)	Max,25	Max,45	Max,90	Max,25	Max,45
전력(W) (Power)	5±5%	10±5%	18±5%	5±5%	10±5%
광속 (Lumens) (Initial rated lightoutput)	Below 400	Below 800	Below 1,400	Below 400	Below 800
내전압 (Withstanding voltage)	AC 2,000V/1min			AC 2,800V/1min	
절연저항 (Insulation resistance)	100MΩ 이상 (Above 100MΩ) (DC 500V. Meg)				
사용주위온도 (Ambient temperature)	-20 ~ +50 °C (다만, 결빙·결로가 없는 곳) (At the place with no freezing and condensation)				
보존온도 (Preserving temperature)	-20 ~ +85°C 및 24시간을 넘지 않는 단기간으로 +70°C이하 (-20 ~ +85°C and below +70°C for less than 24 hrs)				
상대습도 (Relative humidity)	45 ~ 85%				
표고 (Altitude)	2,000m 이하 (Below 2,000m)				
수명(hrs) (Life time)	≥ 50,000				
보호구조 (Protection rating)	IP20				
단자나사/조임토크 (Terminal screw/Torque)	M3 / 0.5 ~ 0.8 N・m				
크기 (W×H×D:mm)(Size)	310×36×34	360×36×34	610×36×34	239×65×30	
적합전선 (Suitable wire)	1.5mm ²				

전력 (Power)	전광속(lm) (Total luminous flux)	광속(lm/W) (Luminous flux)	색온도(k) (Color temperature)	연색성(Ra) (Color rendering)	램프역율(PF) (Lamp factor)
5W	≥400	≥80	6500	≥80	≥0.6
10W	≥800	≥85	6500	≥80	≥0.7
20W	≥1600	≥90	6500	≥80	≥0.9

부품 재질 | Part Materials |

부품 (Part)	재질 (Material)	
	T8	RCL
몸체 (Body)	알루미늄 (Aluminium)	PC 난연 수지(V-2) (Polycarbonate resin)
커버 (Cover)	광확산 PC 수지(V-2) (Light diffusion PC resin)	
PCB	Epoxy sheet (FR-4)	
단자나사 (Terminal screw)	탄소강 (니켈 도금) (Carbon steel (Ni plating))	
터미널블럭 (Terminal block)	PC 난연 수지(V-2) (Polycarbonate resin)	-
부착판 (Bracket)	스테인리스 (Stainless steel)	-

외형 / 치수도 | Shape / Dimension Drawing |

(unit : mm)

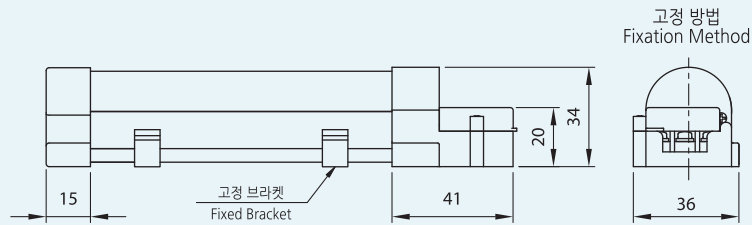
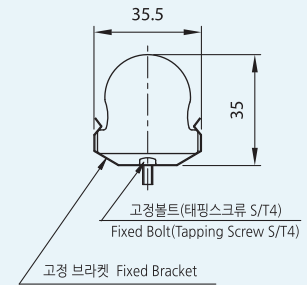
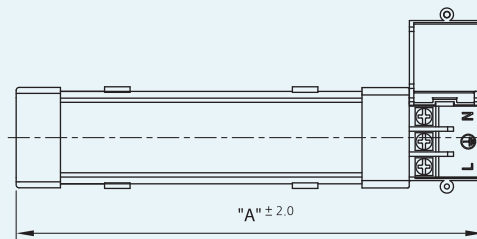
T8



전파인증
(Certified electric
wave by Korean
Certification.)

"A" 치수 구분

Model No.	"A"
YS T8-30-5W	310
YS T8-35-10W	360
YS T8-60-20W	610

고정 방법
Fixation Method

RCL

