YW Series



Innovative Design, Space-Saving, Safety, and Self-Cleaning Contacts











• See website for details on approvals and standards.

Emergency Stop Switches

Satisfy International Standards

- · Safety Lock Mechanism
- Direct Opening Action
- Safe Pushbutton Design



Easy Operation

• Push-to-lock, Pull/Turn-to-release

YW emergency stop switches can be unlatched by either pulling or turning the operator.



Unibody Pilot Lights

- Higher Brightness
- Measures only 42mm depth behind the panel
- Four Lens Shapes
- Panel Mounting



Key Selector Switches

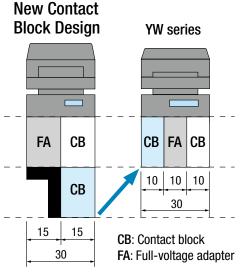
A variety of operations, key removal positions, and circuits.



Plastic Bezel

Metal Bezel

Save

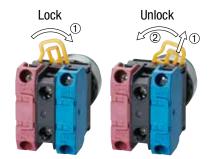




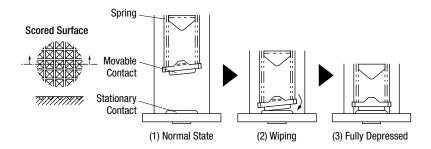
The contact block design reduces the depth behind the panel.

Reliable

Retained Locking Lever



- Heavy-Duty Rugged Construction
- Self-Cleaning Wiping-Action Contacts with Scored Contact Surfaces



Safety



Integrated Finger-safe Terminal Cover
Degree of Protection: IP20 (From panel front: IP65)

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers Operator

interraces

Sensors

AUTO-ID

Flush Silhouette

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Miniature

Pilot Lights

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ΓW

YW

YW Series Switches & Pilot Lights

Space-saving, 10-mm-thick contact blocks. Removable operator.



Contact Ratings (Contact Block)

	· ·					
Rated Insulat	ion Voltage	600V				
Rated Therm	al Current		10)A		
Operating Vo	Itage	24V	120V	240V	380V	
AC	Resistive Load (AC-12)	10A	10A	6A	2A	
50/60 Hz	Inductive Load (AC-15)	10A	6A	3A	1.9A	
DC	Resistive Load (DC-12)	8A	2.2A	1.1A	_	
DC	Inductive Load (DC-13)	4A	1.1A	0.55A	_	

LED Illuminated Unit Specifications

Pilot Light (removable lamp terminal type) **Illuminated Pushbutton**

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Miniature	Pil (re
Pilot Lights	laı ty _l
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Unit							LED Lamp					
Unit Type	Input Type	Rated Voltage	Operating Vo	Operating Voltage		Operating Voltage		Lamp Base	Part No.	Rated Voltage	Current Draw	Color Code
		6V AC/DC	6V AC/DC				LSED-6□N	6V AC/DC	8mA (A, R, Y) 6mA (G, PW, S)			
Pilot Light	5 " " "	12V AC/DC	12V AC/DC	±10%	A: amber		LSED-1□N	12V AC/DC	7mA (A, R, Y) 6mA (G, PW, S)	A: amber G: green		
(removable lamp terminal	Full Voltage	24V AC/DC	24V AC/DC		G: green PW: pure white		LSED-2□N	24V AC/DC	4mA (A, R, Y) 4mA (G, PW, S)	PW: pure white R: red S: blue Y: yellow		
type)		110V AC/DC	110V AC/DC		R: red	BA9S/13	LSED-H□N	110V AC/DC	3mA			
Illuminated		230/240V AC/DC	207 to 250V AC	/DC	S: blue W: white		LSED-M3□N	230/240V AC/DC	3mA	yoo		
Pushbutton	Transformer	100/110V AC	100/110V AC		Y: yellow					Specify a color		
	(pilot light	200/220V AC	200/220V AC	±10%	, , ,		LCED CEIN	6V AC/DC	8mA (A, R, Y)	code in place of ☐ in the Part No.		
	only)	115/120V AC	115/120V AC				LSED-6□N	6V AG/DG	6mA (G, PW, S)	in the Fait No.		
	50/60 Hz	230/240V AC	207 to 250V A	C								

Pilot Light (unibody type)

not right (unbody typo)									
Unit Type	Rated Voltage	Operatin	Operating Voltage		Color Code				
	6V AC/DC	6V AC/DC		16mA (A, R, W, Y) 13mA (G, PW, S)	A: amber G: green				
 Pilot Light	12V AC/DC	12V AC/DC	±10%	20mA	PW: pure white				
(unibody type)	24V AC/DC	24V AC/DC		20mA	R: red S: blue W: white Y: yellow				
	100/110V AC (50/60 Hz sine wave)	100/110V AC		20mA					
	230/240V AC (50/60 Hz sine wave)	230/240V AC	207 to 250V AC	20mA					

Control Boxes

Emergency Enabling Switches

Safety Products

Terminal Blocks

Protectors

Power Supplies

LED Illumination

Controllers

Operator

AUTO-ID

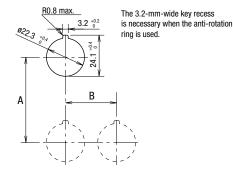
Incandescent Illuminated Unit Specifications

Pilot Light (removable lamp terminal type) **Illuminated Pushbutton**

		In	Incandescent Lamp					
Unit Type	Input Type	Rated Voltage	Operating Vol	tage	Color Code	Lamp Base	Part No.	Rating
		6V AC/DC	6V AC/DC				LS-T6	1W (6.3V)
Pilot Light	Full Voltage	12V AC/DC	12V AC/DC		A: amber		LS-T8	1W (18V)
(removable lamp		24V AC/DC	24V AC/DC	±10%	G: green		LS-T3	1W (30V)
terminal type)		100/110V AC	100/110V AC	±1070	R: red S: blue W: white Y: yellow	BA9S/13		
Illuminated	Transformer (pilot light only)	200/220V AC	200/220V AC				LCTC	1W (6.3V)
Pushbutton	50/60 Hz	115/120V AC	115/120V AC				LS-T6	TW (0.3V)
		230/240V AC	207 to 250V AC	•				

Specification	ons
Operating Conditions	Operating temperature: -20 to +55°C (no freezing) Operating humidity: 45 to 85% RH (no condensation) Storage temperature: -45 to +80°C Storage humidity: 95% RH maximum
Degree of Protection	From panel front: IP65 (IEC 60529) Terminal: IP20 (IEC 60529)
Insulation Resistance	100 ΜΩ
Dielectric Strength	Contact block: 2,500V, 1 minute Pilot light: 2,000V, 1 minute
Vibration Resistance	<emergency stop="" switch=""> Operating extremes / Damage limits: 10 to 500 Hz, amplitude 0.35 mm. acceleration 50 m/s²(5G) <pushbutton, and="" illluminated="" key="" light,="" pilot="" pushbutton,="" selector="" switch="" switch,=""> Operating extremes: 5 to 55 Hz, amplitude 0.5 mm Damage limits: 30 Hz, amplitude 1.5 mm</pushbutton,></emergency>
Shock Resistance	<emergency stop="" switch=""> Operating extremes: 150 m/s² (10G) Damage limits: 1,000 m/s² (100G) <pushbutton, and="" illluminated="" key="" light,="" pilot="" pushbutton,="" selector="" switch="" switch,=""> Operating extremes: 100 m/s² (10G) Damage limits: 1,000 m/s² (100G)</pushbutton,></emergency>
Mechanical Life (minimum operations)	<pre><emergency stop="" switch=""></emergency></pre>
Electrical Life (minimum operations)	<emergency stop="" switch=""> 100,000 (single contact block) <pushbutton, and="" key="" selector="" switch="" switch,=""> 100,000 (single contact block) 50,000 (double contact block)</pushbutton,></emergency>

Mounting Hole Layout



Unit	A (mm)	B (mm)
Emergency stop switch	50 min.	50 min.
Pushbutton Selector switch Key selector switch	50 min.	30 min.
Mushroom pushbutton	50 min.	40 min.
Pilot light (with removable lamp terminal)	30 min.*	30 min.
Pilot light (unibody)	50 min.	30 min.

^{*} Keep a minimum spacing of 50 mm when using a lamp of over 1W.

APEM

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

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Miniature

Pilot Lights

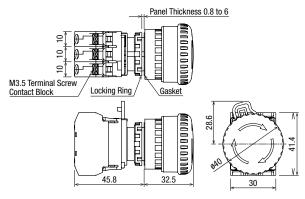
Non-illuminated Emergency Stop Switches (Pushlock Pull/Turn Reset)

Package Quantity: 1

Style	Contact	Contact	Block Mounting	Position	Part No.	Button Color Code	
Style	Contact	1	1 2 3		Fait NO.	Dutton Color Code	
ø40mm Mushroom	1NC	_	_	NC	YW1B-V4E01R		
	2NC	NC	_	NC	YW1B-V4E02R		
The same of the sa	3NC	NC	NC	NC	YW1B-V4E03R	Dod only	
	1NO-1NC	NO	_	NC	YW1B-V4E11R	Red only	
	1NO-2NC	NO	NC	NC	YW1B-V4E12R		
	2NO-1NC	NO	NC	NO	YW1B-V4E21R		

• When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

Dimensions



Contact Block Mounting Position

Illuminated Emergency Stop Switches (Pushlock Pull/Turn Reset)

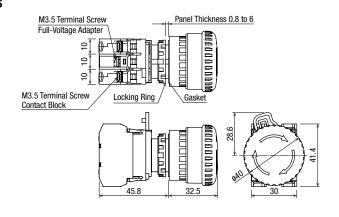
Package Quantity: 1

								Facka	ge Quantity. I
	Style	Lamp	Contacts	Contact BI	ock Mountin	g Position	Part No.	③ Operating Voltage Code	Lens Color
Flush Silhouette	Style	Lamp	Contacts	1	2	3	rait No.	S Operating voltage code	Code
ø16	ø40mm Mushroom		1NC	_	FA	NC	YW1L-V4E01Q0R		
ø22		Without Lamp	2NC	NC	FA	NC	YW1L-V4E02Q0R	0: without lamp 250V AC/DC max.	
ø30	-		1NO-1NC	NO	FA	NC	YW1L-V4E11Q0R		
Miniature	Told .		1NC	_	FA	NC	YW1L-V4E01Q3R	2: 6V AC/DC 3: 12V AC/DC	
Pilot Lights		LED	2NC	NC	FA	NC	YW1L-V4E02Q3R	4: 24V AC/DC	Red only
			1NO-1NC	NO	FA	NC	YW1L-V4E11Q3R	H: 110V AC/DC M3: 230/240V AC/DC	
			1NC	_	FA	NC	YW1L-V4E01Q3R	5: 6V AC/DC	
HW		Incandescent	2NC	NC	FA	NC	YW1L-V4E02Q3R	6: 12V AC/DC	
TW			1NO-1NC	NO	FA	NC	YW1L-V4E11Q3R	7: 24V AC/DC	

- Specify an operating voltage code in place of ③ in the Part No.
- When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

FA: Full voltage adapter

Dimensions



Contact Block Mounting Position



APEM

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Circuit Protectors

Power Supplies

LED Illumination

Controllers Operator

Sensors

AUTO-ID

For more information, visit http://apac.idec.com

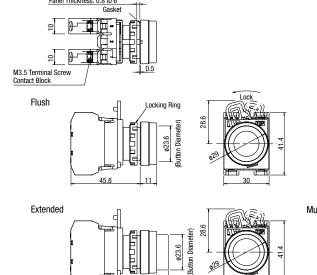
Pushbuttons with Plastic Bezel (Pushlock Pull/Turn Reset)

Package Quantity: 1

No. No.	Part No. YW1B-M1E10① YW1B-M1E01① YW1B-M1E20①	① Button Color Code	ot Lights
Flush No	YW1B-M1E10① YW1B-M1E01①	Code)ht:
No. No.	YW1B-M1E01①	ļ 	
Momentary			
Momentary	YW1B-M1F20①		
Momentary	···· · · · · · · · · · · · · · · · · ·		
3NO NO NO NO NO NO NO NO NO	YW1B-M1E02①		APEM
3NC NC NC NC	YW1B-M1E11①	B: black	Switches &
2NO-1NC	YW1B-M1E30①	G: green	Pilot Lights
NO - 2NC NO NC NC	YW1B-M1E03①	R: red	Control Boxes
Maintained	YW1B-M1E21①	S: blue	Emergency
Maintained 1NC	YW1B-M1E12①	W: white Y: yellow	Stop Switches Enabling
Maintained 2N0 N0 — N0	YW1B-A1E10①	1. yellow	Switches
2NC NC — NC	YW1B-A1E01①		Safety Products
Extended	YW1B-A1E20①]	
Extended	YW1B-A1E02①]	Explosion Proof
1NC	YW1B-A1E11①]	Terminal Blocks
1NC	YW1B-M2E10①		
	YW1B-M2E01①	1	Relays & Sockets
2NC NC — NC	YW1B-M2E20①	B: black G: green R: red S: blue W: white	Circuit
	YW1B-M2E02①		Protectors
1NO-1NC NO — NC	YW1B-M2E11①		Power Supplies
1NO NO — —	YW1B-A2E10①		LED Illumination
1NC — NC	YW1B-A2E01①		
Maintained 2NO NO — NO	YW1B-A2E20①	Y: yellow	Controllers
2NC NC — NC	YW1B-A2E02①		Operator
1NO-1NC NO — NC	YW1B-A2E11①	•	Interfaces
Mushroom ø40mm	YW1B-M4E10①		Sensors
	YW1B-M4E01①	1	AUTO-ID
	YW1B-M4E20①	·	
2NC NC — NC	YW1B-M4E02①	B: black G: green	
	YW1B-M4E11①	R: red	
	YW1B-A4E10①	S: blue	Flush Silhouette
	YW1B-A4E01①	W: white	Fiusii Siiriouette
	YW1B-A4E20①	Y: yellow	ø16
	YW1B-A4E02①	1	ø22
			022
Note: Specify a button color code in place of ⊕ in the Part No	YW1B-A4E11①		

Note: Specify a button color code in place of ① in the Part No.

Dimensions



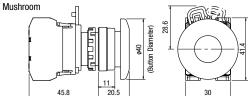
Contact Block Mounting Position

1 2 3

HW

Miniature

Pilot Lights



All dimensions in mm.

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

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ø30

HW

Miniature

Pilot Lights

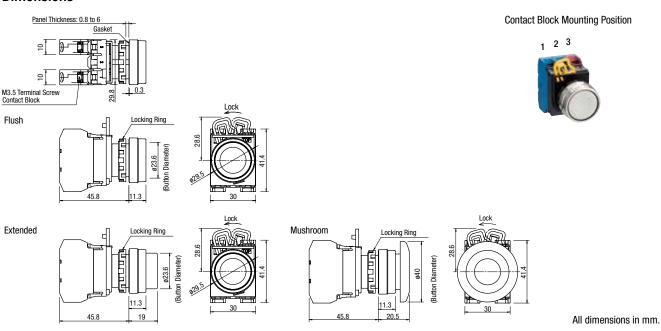
Pushbuttons with Metal Bezel

Package Quantity: 1

Flush		Chana	Onematica	Comtost	Contact E	Contact Block Mounting Position		Doub No.	① Button Color
TNC		S паре	Operation	Contact	1	2	3	Part No.	Code
NO		Flush		1NO	NO	_	_	YW4B-M1E10①	
Momentary				1NC	_	_	NC	YW4B-M1E01①	
Momentary	-			2N0	NO	_	NO	YW4B-M1E20①	
3NO NO NO NO YW48-M1E300 Si black Si green Ri red Si blue With the yellow Si blue With the yellow Si blue				2NC	NC		NC	YW4B-M1E02①	
SNO NO NO NO YW48-M15300 G; green R red S. blue W; white Y; yellow Maintained Mushroom e40mm Maintained Momentary Mo			Momentary	1NO-1NC	NO	_	NC	YW4B-M1E111	D. block
SNC NC NC YW48-M1E03© R: red S: blue W: white Y: yellow		E 10 F		3N0	NO	NO	NO	YW4B-M1E30①	
No-2NC No NC NC YW4B-M1E120 Yeyellow		11		3NC	NC	NC	NC	YW4B-M1E03①	
NNO NNO				2NO-1NC	NO	NC	NO	YW4B-M1E21 ^①	
NO	-			1NO-2NC	NO	NC	NC	YW4B-M1E12①	
Maintained 2NO				1N0	NO	_	_	YW4B-A1E10①	1. yellow
Extended 1NO-1NC NO	-			1NC	_	_	NC	YW4B-A1E01①	
TNO-1NC NO NO YW4B-A1E11 TO YW4B-M2E10 TO YW4B-M2E20 TO YW4B-M2E20 TO YW4B-M2E20 YO YW4B-M2E	-		Maintained	2N0	NO	_	NO	YW4B-A1E20①	
Extended				2NC	NC	_	NC	YW4B-A1E02①	
Momentary	-			1NO-1NC	NO	_	NC	YW4B-A1E11①	
Momentary 2NO	-	Extended		1N0	NO	_	_	YW4B-M2E10①	
2NC NC — NC YW4B-M2E020 G; green R; red S; blue W; white Y; yellow			Momentary	1NC	_	_	NC	YW4B-M2E01®	G: green R: red S: blue
NC NC YW48-M2E020 G: green R: red S: blue W: white Y: yellow	-			2N0	NO	_	NO	YW4B-M2E20①	
NO-1NC NO — NC YW4B-M2E11① R: red S: blue W: white Y: yellow	-	E GO		2NC	NC	_	NC	YW4B-M2E02①	
Maintained 1NC				1NO-1NC	NO	_	NC	YW4B-M2E11①	
Maintained 2NO NO	-			1N0	NO	_	_	YW4B-A2E10①	
Maintained 2NO NO NO YW4B-A2E200	-			1NC	_	_	NC	YW4B-A2E01①	
NO-1NC NO — NC YW4B-A2E11①			Maintained	2N0	NO	_	NO	YW4B-A2E20①	r: yellow
Mushroom ø40mm 1NO NO YW4B-M4E101	-			2NC	NC	_	NC	YW4B-A2E02①	
NC	-			1NO-1NC	NO	_	NC	YW4B-A2E11①	
Momentary 2NO NO — NO YW4B-M4E201 B: black G: green NO-1NC NO — NC YW4B-M4E111 NO NO — NC YW4B-M4E110 NO NO NO NO NO NO NO N		Mushroom ø40mm		1N0	NO	_	_	YW4B-M4E10①	
2NC NC — NC YW4B-M4E020 B: black G: green R: red S: blue W: white Y: yellow S: blue W: yellow S: blue	-			1NC	_	_	NC	YW4B-M4E011	
NC NC YW4B-M4E021 G: green R: red S: blue W: white Y: yellow	-		Momentary	2N0	NO	_	NO	YW4B-M4E201	D. blook
1N0-1NC N0 — NC YW4B-M4E11① R: red S: blue W: white Y: yellow NC YW4B-A4E20① YW4B-A4E20① YW4B-A4E20① YW4B-A4E20① Y: yellow Y: yellow YW4B-A4E20① Y: yellow Y: ye		0		2NC	NC	_	NC	YW4B-M4E02①	
Maintained				1NO-1NC	NO	_	NC	YW4B-M4E11①	
Maintained	-			1N0	NO	_	_	YW4B-A4E10①	
Maintained 2NO NO — NO YW4B-A4E20	-			1NC	_	_	NC	YW4B-A4E01①	
			Maintained	2N0	NO	_	NO	YW4B-A4E20①	1. yellow
1NO-1NC NO — NC YW4B-A4E11①				2NC	NC	_	NC	YW4B-A4E02①]
				1NO-1NC	NO	_	NC	YW4B-A4E11①]

Note: Specify a button color code in place of $\ensuremath{\mathfrak{I}}$ in the Part No.

Dimensions



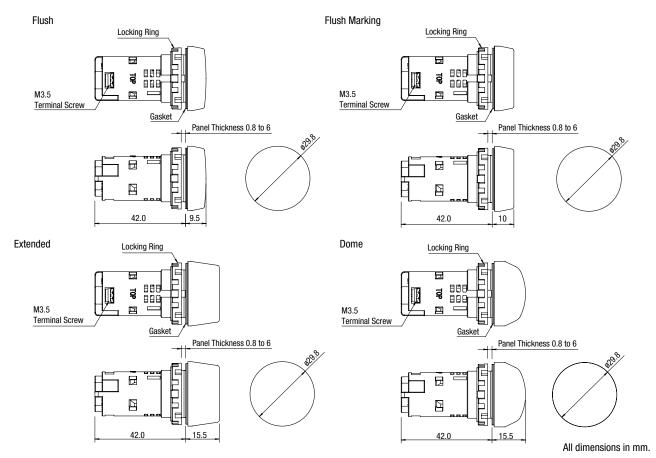
Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Pilot Lights (Unibody)

Package Quantity: 1

Shape	Lamp	Operating Voltage	Part No.	② Lens Color Code
Flush		6V AC/DC	YW1P-1UQ2@	
Full Voltage		12V AC/DC	YW1P-1UQ3 ²	
	LED	24V AC/DC	YW1P-1UQ4@	
		100/110V AC	YW1P-1UQH@	
		230/240V AC	YW1P-1UQM3 ²	
Flush Marking		6V AC/DC	YW1P-1BUQ2②	
Full Voltage		12V AC/DC	YW1P-1BUQ3@	
	LED	24V AC/DC	YW1P-1BUQ4@	
		100/110V AC	YW1P-1BUQH@	A: amber G: green
		230/240V AC	YW1P-1BUQM3@	PW: pure white R: red
Extended		6V AC/DC	YW1P-2TUQ2@	S: blue
Full Voltage		12V AC/DC	YW1P-2TUQ3@	W: white Y: yellow
	LED	24V AC/DC	YW1P-2TUQ4@	
		100/110V AC	YW1P-2TUQH@	
		230/240V AC	YW1P-2TUQM3@	
Dome		6V AC/DC	YW1P-2UQ2@	
Full Voltage		12V AC/DC	YW1P-2UQ3@	
	LED	24V AC/DC	YW1P-2UQ4@	
		100/110V AC	YW1P-2UQH@	
		230/240V AC	YW1P-2UQM3@	

Dimensions



ø16

ø22

ø30

Miniature

Pilot Lights

HW

Flush Silhouette

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Sensors AUTO-ID

Flush Silhouette

ø16

ø30 Miniature Pilot Lights

HW

Pilot Lights (with Removable Lamp Terminal)

Package Quantity: 1

Shape	Lamp	Operating Voltage	Part No.	Package Quantity: ② Lens Color Code	
Flush Full Voltage	Without Lamp	250V AC/DC max.	YW1P-1EQ0@	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow)	
		6V AC/DC	YW1P-1EQ22	w (writte), i (yellow)	
		12V AC/DC	YW1P-1EQ3@		
	LED	24V AC/DC	YW1P-1EQ4@	A (amber), G (green), PW (pure white), R (red),	
		110V AC/DC	YW1P-1E0H2	S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-3@N	
		230/240V AC/DC	YW1P-1EQM32		
		6V AC/DC	YW1P-1EQ5@	A (amber), C (clear),	
	Incandescent	12V AC/DC	YW1P-1EQ6@	G (green), R (red), S (blue), W (white), Y (yellow)	
		24V AC/DC	YW1P-1EQ7@	Built-in incandescent lamp: LS-T3	
Flush		100/110V AC	YW1P-1EH2②		
Transformer		200/220V AC	YW1P-1EM2②	A (amber), G (green), PW (pure white), R (red),	
	LED	115/120V AC	YW1P-1EH22@	S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6@N	
W 25		230/240V AC	YW1P-1EM422	Duilt iii ELD lamp. LOED 0@N	
		100/110V AC	YW1P-1EH5@		
	Incomplete	200/220V AC		A (amber), C (clear), G (green), R (red), S (blue),	
	Incandescent	115/120V AC	YW1P-1EH25@	W (white), Y (yellow) Built-in incandescent lamp: LS-T6	
		230/240V AC	YW1P-1EM45@		
Flush Marking Full Voltage	Without Lamp	250V AC/DC max.	YW1P-1BEQ0@	A (amber), G (green), R (red), S (blue), W (white), Y (yellow)	
		6V AC/DC	YW1P-1BEQ22		
		12V AC/DC	YW1P-1BEQ3 ²	A (amber), G (green),	
	LED	24V AC/DC	YW1P-1BEQ42	PW (pure white), R (red), S (blue), W (white), Y (yellow)	
		110V AC/DC	YW1P-1BEQH2	Built-in LED lamp: LSED-32N	
		230/240V AC/DC	YW1P-1BEQM32		
		6V AC/DC	YW1P-1BEQ5@	A (amber), G (green), R (red),	
	Incandescent	12V AC/DC	YW1P-1BEQ6@	S (blue), W (white), Y (yellow) Built-in incandescent lamp: LS-T③	
		24V AC/DC	YW1P-1BEQ7 ²	Duit in incandoscent lamp. Lo 1	
Flush Marking Transformer		100/110V AC	YW1P-1BEH22	A (amban) C (maan)	
	LED	200/220V AC	YW1P-1BEM22	A (amber), G (green), PW (pure white), R (red),	
		115/120V AC	YW1P-1BEH22②	S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6@N	
		230/240V AC	YW1P-1BEM42②		
		100/110V AC	YW1P-1BEH5②		
	Incandescent	200/220V AC	YW1P-1BEM5©	A (amber), G (green), R (red), S (blue), W (white), Y (yellow)	
		115/120V AC	YW1P-1BEH25②		
		230/240V AC	YW1P-1BEM45@		

For more information, visit http://apac.idec.com

Note: Specify a lens color code in place of ② in the Part No.

Clear lenses are used for PW (pure white) illumination of pilot lights.

Pilot Lights (with Removable Lamp Terminal)

Chana	Lomp	Operating Valtage	Dort No.	Package Quantity:	ot L
Shape	Lamp	Operating Voltage	Part No.	② Lens Color Code	Pilot Lights
Extended Full Voltage	Without Lamp	250V AC/DC max.	YW1P-2TEQ0@	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow)	ţs
		6V AC/DC	YW1P-2TEQ22		APEM
		12V AC/DC	YW1P-2TEQ3②	A (amber), G (green),	Switches &
	LED	24V AC/DC	YW1P-2TEQ42	PW (pure white), R (red), S (blue), W (white), Y (yellow)	Pilot Lights Control Box
		110V AC/DC	YW1P-2TEQH@	Built-in LED lamp: LSED-3@N	Emergency Stop Switc
		230/240V AC/DC	YW1P-2TEQM3@		Enabling Switches
		6V AC/DC	YW1P-2TEQ5@	A (amber), C (clear),	Safety Pro
	Incandescent	12V AC/DC	YW1P-2TEQ6@	G (green), R (red), S (blue), W (white), Y (yellow)	Explosion I
		24V AC/DC	YW1P-2TEQ7@	Built-in incandescent lamp: LS-T③	Terminal B
xtended		100/110V AC	YW1P-2TEH2②		Relays & So
ransformer	LED	200/220V AC	YW1P-2TEM2②	A (amber), G (green), PW (pure white), R (red),	Circuit Protectors
	LED	115/120V AC	YW1P-2TEH222	S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6②N	Power Sup
		230/240V AC	YW1P-2TEM42@		LED Illumir
		100/110V AC	YW1P-2TEH5@		Controllers
	Incomplesses	200/220V AC	YW1P-2TEM5@	A (amber), C (clear), G (green), R (red), S (blue),	Operator
	Incandescent	115/120V AC	YW1P-2TEH25@	W (white), Y (yellow) Built-in incandescent lamp: LS-T6	Interfaces Sensors
		230/240V AC	YW1P-2TEM45@		AUTO-ID
ome iull Voltage	Without Lamp	250V AC/DC max.	YW1P-2EQ02	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow)	
		6V AC/DC	YW1P-2EQ2@		Flush Silho
		12V AC/DC	YW1P-2EQ3@	A (amber), G (green),	ø16
	LED	24V AC/DC	YW1P-2EQ4@	PW (pure white), R (red), S (blue), W (white), Y (yellow)	ø22
		110V AC/DC	YW1P-2EQH2	Built-in LED lamp: LSED-3@N	ø30
		230/240V AC/DC	YW1P-2EQM3@		Miniature
		6V AC/DC	YW1P-2EQ5@	A (amber), C (clear),	Pilot Light
	Incandescent	12V AC/DC	YW1P-2EQ6@	G (green), R (red), S (blue), W (white), Y (yellow)	
		24V AC/DC	YW1P-2EQ7②	Built-in incandescent lamp: LS-T③	
ome consformer		100/110V AC	YW1P-2EH2②		HW
ransformer	LED	200/220V AC	YW1P-2EM2②	A (amber), G (green), PW (pure white), R (red),	TW
	LED	115/120V AC	YW1P-2EH22@	S (blue), W (white), Y (yellow) Built-in LED lamp: LSED-6@N	YW
		230/240V AC	YW1P-2EM42@		
		100/110V AC	YW1P-2EH5@		
	Incords	200/220V AC	YW1P-2EM5@	A (amber), C (clear), G (green), R (red), S (blue),	
	Incandescent	115/120V AC	YW1P-2EH25@	W (white), Y (yellow) Built-in incandescent lamp: LS-T6	
		220/240\/ AC	\		

230/240V AC

Note: Specify a lens color code in place of $\ensuremath{\mathfrak{D}}$ in the Part No. Clear lenses are used for PW (pure white) illumination of pilot lights. **YW1P-2EM45**②

Dimensions All dimensions in mm

Pilot Lights (with Removable Lamp Terminal)

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit

Protectors

Power Supplies

LED Illumination

Controllers Operator

Interfaces Sensors

AUTO-ID

Flush Silhouette

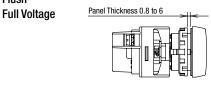
ø16

ø30 Miniature

Pilot Lights

HW

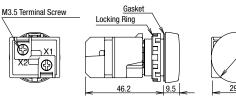
YW

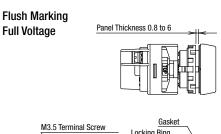


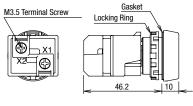
Panel Thickness 0.8 to 6

Locking Ring

63.3

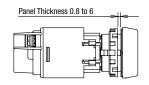


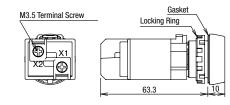










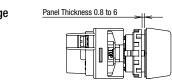


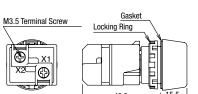


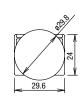


Transformer

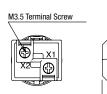
M3.5 Terminal Screw

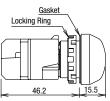






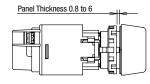




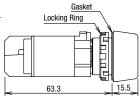


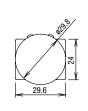


Transformer

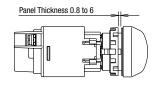


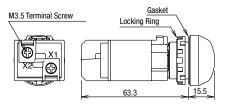






Transformer







Illuminated Pushbuttons with Plastic Bezel

Package Quantity: 1

									Package Quantity: 1	은
Shape	Lamp	Operation	Contact		ntact Blanting Po		Part No.	③ OperatingVoltage Code	② Lens Color Code	ilot Lights
Extended			1NO	NO	FA	<u> </u>	YW1L-M2E10Q0@			0,
Extenueu			1NC	_	FA	NC	YW1L-M2E01Q0©	-		
		Momentary	2NO	NO	FA	NO	YW1L-M2E20Q02			APEM
			2NC	NC	FA	NC	YW1L-M2E02Q0@		A: amber G: green	
			1NO-1NC	NO	FA	NC	YW1L-M2E11Q0@	0: without lamp	R: red	Switches & Pilot Lights
	Without Lamp		1NO	NO	FA	_	YW1L-A2E10Q02	250V AC/DC max.		Control Boxes
			1NC		FA	NC	YW1L-A2E01Q02			
		Maintained	2N0	NO	FA	NO	YW1L-A2E20Q02			Emergency Stop Switches
			2NC	NC	FA	NC	YW1L-A2E02Q02			Enabling
			1NO-1NC	NO	FA	NC	YW1L-A2E11Q02			Switches
			1NO	NO	FA	_	YW1L-M2E10Q32			Safety Produc
			1NC	_	FA	NC	YW1L-M2E01Q32		A: amber	Evaluation Drag
		Momentary	2N0	NO	FA	NO	YW1L-M2E20Q3@	2: 6V AC/DC	G: green	Explosion Prod
100			2NC	NC	FA	NC	YW1L-M2E02Q3@	3: 12V AC/DC	PW: pure white	Terminal Bloc
11	LED		1NO-1NC	NO	FA	NC	YW1L-M2E11Q32	4: 24V AC/DC	R: red S: blue	Polovo & Cook
	LLD		1NO	NO	FA	_	YW1L-A2E10Q32	H: 110V AC/DC	W: white	Relays & Sock
		Maintained	1NC		FA	NC	YW1L-A2E01Q32	M3: 230/240V AC/DC	Y: yellow	Circuit Protectors
		Maintained	2N0	NO	FA	NO	YW1L-A2E20Q32	AU/DU	Built-in LED lamp:	
			2NC	NC	FA	NC	YW1L-A2E02Q32		LSED-32N	Power Supplie
			1NO-1NC	NO	FA	NC	YW1L-A2E11Q32			LED Illuminati
			1NO	NO	FA	_	YW1L-M2E10Q3@			
			1NC		FA	NC	YW1L-M2E01Q3@		A: amber	Controllers
		Momentary	2N0	NO	FA	NO	YW1L-M2E20Q3©		G: green	Operator
			2NC	NC	FA	NC	YW1L-M2E02Q3©	5: 6V AC/DC	R: red S: blue	Interfaces
	Incandescent		1NO-1NC	NO	FA	NC	YW1L-M2E11Q32	6: 12V AC/DC	W: white	Sensors
	autauau		1NO	NO	FA	_	YW1L-A2E10Q32	7: 24V AC/DC	Y: yellow	AUTO-ID
			1NC		FA	NC	YW1L-A2E01Q32	_	Built-in incandescent lamp: LS-T③	
		Maintained	2N0	NO	FA	NO	YW1L-A2E20Q32	_		
			2NC	NC	FA	NC	YW1L-A2E02Q32	_	L9-1@	
			1NO-1NC	NO	FA	NC	YW1L-A2E11Q32			Flush Silhouet
Extended with			1NO	NO	FA		YW1L-MF2E10Q0②	_		
Full Shroud			1NC		FA	NC	YW1L-MF2E01Q0②	_		ø16
		Momentary	2N0	NO NO	FA	NO NO	YW1L-MF2E20Q0②	-	A: amber G: green R: red S: blue	ø22
			2NC 1NO-1NC	NC	FA FA	NC	YW1L-MF2E02Q02			VLL
	Without Lamp		1NO-1NC	NO NO	FA	NC —	YW1L-MF2E11Q0@	0: without lamp 250V AC/DC max.		ø30
			1NC	INU	FA	NC	YW1L-AF2E10Q0② YW1L-AF2E01Q0②	200V AO/DO Max.	W: white	Miniature
		Maintained	2NO	NO	FA	NO	YW1L-AF2E20Q02		Y: yellow	- Iviii ilatare
		Walltalleu	2NC	NC	FA	NC	YW1L-AF2E02Q02			Pilot Lights
			1NO-1NC	NO	FA	NC	YW1L-AF2E11Q02	-		
			1NO-1NO	NO NO	FA	—	YW1L-MF2E10Q32			
-			1NC		FA	NC	YW1L-MF2E01Q32		A: amber	
		Momentary	2NO	NO	FA	NO	YW1L-MF2E20Q32	-	G: green	HW
		Wiomemary	2NC	NC	FA	NC	YW1L-MF2E02Q32	2: 6V AC/DC	PW: pure white	
11			1NO-1NC	NO NO	FA	NC	YW1L-MF2E11Q32	3: 12V AC/DC 4: 24V AC/DC	R: red	TW
	LED		1NO	NO	FA	_	YW1L-AF2E10Q32	H: 110V AC/DC	S: blue	YW
			1NC		FA	NC	YW1L-AF2E01Q32	M3: 230/240V	W: white Y: yellow	
		Maintained	2NO	NO	FA	NO	YW1L-AF2E20Q32	AC/DC	Built-in LED lamp:	
		Walitaniou	2NC	NC	FA	NC	YW1L-AF2E02Q32	-	LSED-32N	
			1NO-1NC	NO	FA	NC	YW1L-AF2E11Q32	-		
			1NO	NO	FA	_	YW1L-MF2E10Q32			
					_	NC	YW1L-MF2E01Q32	-	A. ombor	
				_	FA					
		Momentary	1NC	 NO	FA FA			32	A: amber G: green	
		Momentary	1NC 2NO	NO	FA	NO	YW1L-MF2E20Q3@		G: green R: red	
		Momentary	1NC 2NO 2NC	NO NC	FA FA	NO NC	YW1L-MF2E20Q32 YW1L-MF2E02Q32	5: 6V AC/DC	G: green R: red S: blue	
	Incandescent	Momentary	1NC 2NO 2NC 1NO-1NC	NO NC NO	FA FA FA	NO	YW1L-MF2E20Q32 YW1L-MF2E02Q32 YW1L-MF2E11Q32	6: 12V AC/DC	G: green R: red S: blue W: white	
	Incandescent	Momentary	1NC 2NO 2NC 1NO-1NC	NO NC	FA FA FA	NO NC NC	YW1L-MF2E20Q32 YW1L-MF2E02Q32 YW1L-MF2E11Q32 YW1L-AF2E10Q32		G: green R: red S: blue W: white Y: yellow	
	Incandescent		1NC 2NO 2NC 1NO-1NC 1NO	NO NC NO NO	FA FA FA FA FA	NO NC NC NC	YW1L-MF2E20Q3 ② YW1L-MF2E02Q3 ② YW1L-MF2E11Q3 ② YW1L-AF2E10Q3 ② YW1L-AF2E01Q3 ②	6: 12V AC/DC	G: green R: red S: blue W: white Y: yellow Built-in	
	Incandescent	Momentary Maintained	1NC 2NO 2NC 1NO-1NC	NO NC NO NO	FA FA FA	NO NC NC	YW1L-MF2E20Q32 YW1L-MF2E02Q32 YW1L-MF2E11Q32 YW1L-AF2E10Q32	6: 12V AC/DC	G: green R: red S: blue W: white Y: yellow	

Note: Specify a lens color code in place of ② in the Part No. Specify an operating voltage code in place of $\ensuremath{\Im}$ in the Part No. FA: Full voltage adapter

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Sensors AUTO-ID

Flush Silhouette

ø16

ø30

Miniature

Illuminated Pushbuttons with Plastic Bezel

Package Quantity: 1

Shape	Lamp	Operation	Contact		ntact Blo		Part No.	③ Operating	② Lens Color Code	
σπαρε	Lamp	Орегация	Comaci	1	2	3	I artino.	Voltage Code	© Lens color code	
Mushroom ø40mm			1NO	NO	FA	_	YW1L-M4E10Q0@			
			1NC	_	FA	NC	YW1L-M4E01Q02			
		Momentary	2N0	NO	FA	NO	YW1L-M4E20Q02		A: amber	
			2NC	NC	FA	NC	YW1L-M4E02Q02		G: green R: red	
	Without Lamp		1NO-1NC	NO	FA	NC	YW1L-M4E11Q02	0: without lamp		
	Williout Lamp		1NO	NO	FA	_	YW1L-A4E10Q02	250V AC/DC max.	S: blue	
			1NC	_	FA	NC	YW1L-A4E01Q02		W: white Y: yellow	
		Maintained	2N0	NO	FA	NO	YW1L-A4E20Q02		1. yellow	
			2NC	NC	FA	NC	YW1L-A4E02Q02			
			1NO-1NC	NO	FA	NC	YW1L-A4E11Q02			
			1NO	NO	FA	_	YW1L-M4E10Q32			
	LED		1NC	_	FA	NC	YW1L-M4E01Q32		A: amber	
The same of the sa		Momentary	2N0	NO	FA	NO	YW1L-M4E20Q32	2: 6V AC/DC 3: 12V AC/DC	G: green PW: pure white R: red S: blue W: white Y: yellow	
The Participant			2NC	NC	FA	NC	YW1L-M4E02Q32			
			1NO-1NC	NO	FA	NC	YW1L-M4E11Q32	4: 24V AC/DC		
		Maintained	1NO	NO	FA	_	YW1L-A4E10Q32	H: 110V AC/DC M3: 230/240V AC/DC		
			1NC	_	FA	NC	YW1L-A4E01Q32			
			2N0	NO	FA	NO	YW1L-A4E20Q32		Built-in LED lamp:	
			2NC	NC	FA	NC	YW1L-A4E02Q32		LSED-32N	
			1NO-1NC	NO	FA	NC	YW1L-A4E11Q32			
			1NO	NO	FA	_	YW1L-M4E10Q32			
			1NC	_	FA	NC	YW1L-M4E01Q32		A: amber	
		Momentary	2N0	NO	FA	NO	YW1L-M4E20Q32		G: green	
			2NC	NC	FA	NC	YW1L-M4E02Q32		R: red	
	Incandescent		1NO-1NC	NO	FA	NC	YW1L-M4E11Q32	5: 6V AC/DC 6:12V AC/DC	S: blue W: white	
	incanucacent		1NO	NO	FA	_	YW1L-A4E10Q32	7:24V AC/DC	Y: yellow	
			1NC	_	FA	NC	YW1L-A4E01Q32	11 / 10/20	Built-in	
		Maintained	2N0	NO	FA	NO	YW1L-A4E20Q32		incandescent lamp:	
			2NC	NC	FA	NC	YW1L-A4E02Q32		LS-T®	
			1NO-1NC	NO	FA	NC	YW1L-A4E11Q32			
Note: Specify a lens color code in p	lace of ② in the	Part No								

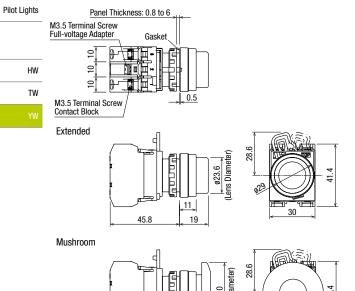
Note: Specify a lens color code in place of $\ensuremath{\mathfrak{D}}$ in the Part No.

Specify an operating voltage code in place of $\ensuremath{\mathfrak{I}}$ in the Part No.

FA: Full voltage adapter

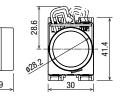
Dimensions

(Illuminated Pushbuttons with Plastic Bezel)



Contact Block Mounting Position





All dimensions in mm.

Extended with Full Shroud

Control Boxes Emergency Stop Switches Enabling Switches Safety Products

Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator

Sensors AUTO-ID

Flush Silhouette

ø16

ø30 Miniature Pilot Lights

Illuminated Pushbuttons with Metal Bezel

Package Quantity: 1

Shape	Lamp	Operation	Contact		ntact Blanting Po		Part No.	③ Operating Voltage Code	② Lens Color Cod	
Extended			1NO	NO	FA	_	YW4L-M2E10Q0@			
Alciiucu			1NC	_	FA	NC	YW4L-M2E01Q02			
		Momentary	2NO	NO	FA	NO	YW4L-M2E20Q02		A: amber G: green R: red S: blue	
		, momontary	2NC	NC	FA	NC	YW4L-M2E02Q0©			
			1NO-1NC	NO	FA	NC		O. without lamp		
	Without Lamp			_			YW4L-M2E11Q02	0: without lamp 250V AC/DC max.		
			1NO	NO	FA		YW4L-A2E10Q0@	230V AO/DO IIIAX.	W: white	
		Na-i-t-i	1NC	<u> </u>	FA	NC	YW4L-A2E01Q0②		Y: yellow	
		Maintained	2N0	NO	FA	NO	YW4L-A2E20Q0②			
			2NC	NC	FA	NC	YW4L-A2E02Q0②			
			1NO-1NC	NO	FA	NC	YW4L-A2E11Q0②			
			1NO	NO	FA	_	YW4L-M2E10Q32			
			1NC		FA	NC	YW4L-M2E01Q32		A: amber	
		Momentary	2N0	NO	FA	NO	YW4L-M2E20Q32		G: green	
E to			2NC	NC	FA	NC	YW4L-M2E02Q32	2: 6V AC/DC	PW: pure white	
TO SECOND	LED		1NO-1NC	NO	FA	NC	YW4L-M2E11Q32	3: 12V AC/DC	R: red	
	LED		1NO	NO	FA	_	YW4L-A2E10Q32	4: 24V AC/DC H: 110V AC/DC	S: blue W: white	
			1NC	1	FA	NC	YW4L-A2E01Q32	M3: 230/240V AC/DC	Y: yellow	
		Maintained	2NO	NO	FA	NO	YW4L-A2E20Q32		Built-in LED lamp:	
			2NC	NC	FA	NC	YW4L-A2E02Q32		LSED-32N	
			1NO-1NC	NO	FA	NC			LOLD SEN	
				-			YW4L-A2E11Q3@			
			1NO	NO	FA	<u> </u>	YW4L-M2E10Q32			
		Momentary	1NC		FA	NC	YW4L-M2E01Q32		A: amber	
			2N0	NO	FA	NO	YW4L-M2E20Q32		G: green	
			2NC	NC	FA	NC	YW4L-M2E02Q32	5: 6V AC/DC	R: red	
	Incandescent		1NO-1NC	NO	FA	NC	YW4L-M2E11Q32	6: 12V AC/DC	S: blue W: white	
	ilicaliuescelli		1NO	NO	FA	_	YW4L-A2E10Q32	7: 24V AC/DC	Y: yellow	
			1NC	_	FA	NC	YW4L-A2E01Q32	7. 247 7.07 00	Built-in	
		Maintained	2N0	NO	FA	NO	YW4L-A2E20Q32		incandescent lam	
			2NC	NC	FA	NC	YW4L-A2E02Q3@		LS-T3	
			1NO-1NC	NO	FA	NC	YW4L-A2E11Q32			
			1NO-1NO	NO	FA		YW4L-MF2E10Q02			
tended with					_		_			
II Shroud			1NC	<u> </u>	FA	NC	YW4L-MF2E01Q0@			
		Momentary	2N0	NO	FA	NO	YW4L-MF2E20Q0②	0: without lamp	A: amber	
			2NC	NC	FA	NC	YW4L-MF2E02Q0②		G: green R: red S: blue W: white Y: yellow	
	Without Lamp		1NO-1NC	NO	FA	NC	YW4L-MF2E11Q02			
			1NO	NO	FA	_	YW4L-AF2E10Q02	250V AC/DC max.		
			1NC	—	FA	NC	YW4L-AF2E01Q02			
		Maintained	2N0	NO	FA	NO	YW4L-AF2E20Q02		1. yellow	
			2NC	NC	FA	NC	YW4L-AF2E02Q02			
			1NO-1NC	NO	FA	NC	YW4L-AF2E11Q0②			
			1NO	NO	FA	_	YW4L-MF2E10Q32			
			1NC	_	FA	NC	YW4L-MF2E01Q32		A. ambar	
		Momentary	2NO	NO	FA	NO			A: amber G: green	
E 10		Wionnemany		_			YW4L-MF2E20Q32	2: 6V AC/DC	PW: pure white	
11			2NC	NC	FA	NC	YW4L-MF2E02Q32	3: 12V AC/DC	R: red	
	LED		1NO-1NC	NO.	FA	NC	YW4L-MF2E11Q32	4: 24V AC/DC	S: blue	
			1NO	NO	FA	_	YW4L-AF2E10Q32	H: 110V AC/DC	W: white	
			1NC	_	FA	NC	YW4L-AF2E01Q32	M3: 230/240V AC/DC	Y: yellow	
		Maintained	2N0	NO	FA	NO	YW4L-AF2E20Q32		Built-in LED lamp	
			2NC	NC	FA	NC	YW4L-AF2E02Q32		LSED-32N	
			1NO-1NC	NO	FA	NC	YW4L-AF2E11Q32			
			1NO	NO	FA		YW4L-MF2E10Q32			
			1NC	_	FA	NC	YW4L-MF2E01Q32		A: amber	
		Momentary	2N0	NO	FA	NO	YW4L-MF2E20Q32		G: green	
		o.iioiitai y	2NC	NC	FA				R: red	
						NC	YW4L-MF2E02Q32	5: 6V AC/DC	S: blue	
	Incandescent		1NO-1NC	NO NO	FA	NC	YW4L-MF2E11Q32	6: 12V AC/DC	W: white	
			1NO	NO	FA	_	YW4L-AF2E10Q32	7: 24V AC/DC	Y: yellow	
			1NC	_	FA	NC	YW4L-AF2E01Q32		Built-in	
		Maintained	2N0	NO	FA	NO	YW4L-AF2E20Q32		incandescent lam	
		wantaneu	2NC	NC	FA	NC	YW4L-AF2E02Q32		LS-T®	
								1		

Note: Specify a lens color code in place of ② in the Part No. Specify an operating voltage code in place of $\ensuremath{\mathfrak{B}}$ in the Part No. FA: Full voltage adapter

Circuit Protectors **Power Supplies** LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16

ø30

HW

TW

Miniature

Pilot Lights

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks

Illuminated Pushbuttons with Metal Bezel

Package Quantity: 1

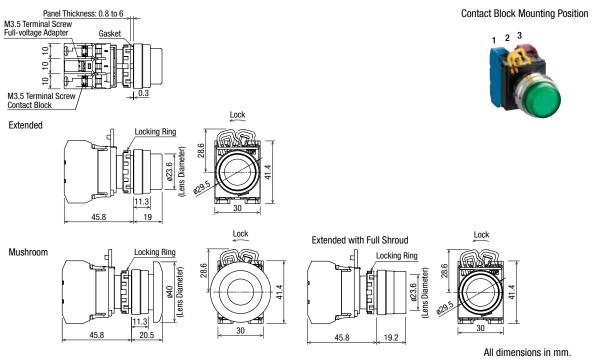
Style	Lamp	Operation	Contact		ntact Blo		Part No.	③ Operating	② Lens Color Code	
		oporano	00.11401	1	2	3		Voltage Code	20.00 00.00 0000	
ø40mm Mushroom			1NO	NO	FA	_	YW4L-M4E10Q02			
			1NC	_	FA	NC	YW4L-M4E01Q02			
		Momentary	2N0	NO	FA	NO	YW4L-M4E20Q02		A: amber	
			2NC	NC	FA	NC	YW4L-M4E02Q02		G: green	
	Without Lamp		1NO-1NC	NO	FA	NC	YW4L-M4E11Q0@	0: without lamp	R: red	
	without Lamp	Maintained	1NO	NO	FA	_	YW4L-A4E10Q0@	250V AC/DC max.	S: blue	
			1NC	_	FA	NC	YW4L-A4E01Q02		W: white Y: yellow	
			2N0	NO	FA	NO	YW4L-A4E20Q0@		r. yellow	
			2NC	NC	FA	NC	YW4L-A4E02Q0@			
			1NO-1NC	NO	FA	NC	YW4L-A4E11Q0@			
			1NO	NO	FA	_	YW4L-M4E10Q32			
		Momentary	1NC	_	FA	NC	YW4L-M4E01Q32		A: amber G: green PW: pure white R: red S: blue W: white Y: yellow	
FIGNE	LED		2N0	NO	FA	NO	YW4L-M4E20Q32	2: 6V AC/DC 3: 12V AC/DC		
11			2NC	NC	FA	NC	YW4L-M4E02Q32			
			1NO-1NC	NO	FA	NC	YW4L-M4E11Q32	3: 12V AC/DC 4: 24V AC/DC		
		Maintained	1NO	NO	FA	_	YW4L-A4E10Q32	H: 110V AC/DC M3: 230/240V AC/DC		
			1NC	_	FA	NC	YW4L-A4E01Q32			
			2N0	NO	FA	NO	YW4L-A4E20Q32		Built-in LED lamp: LSED-32N	
			2NC	NC	FA	NC	YW4L-A4E02Q32		LOED-OWN	
			1NO-1NC	NO	FA	NC	YW4L-A4E11Q32			
			1NO	NO	FA	_	YW4L-M4E10Q32			
			1NC		FA	NC	YW4L-M4E01Q32		A: amber	
		Momentary	2N0	NO	FA	NO	YW4L-M4E20Q32		G: green	
			2NC	NC	FA	NC	YW4L-M4E02Q32	F. CV AC/DC	R: red	
	Incandescent		1NO-1NC	NO	FA	NC	YW4L-M4E11Q32	5: 6V AC/DC 6: 12V AC/DC	S: blue W: white	
	ouridooont		1NO	NO	FA		YW4L-A4E10Q32	7: 24V AC/DC	Y: yellow	
			1NC	_	FA	NC	YW4L-A4E01Q32		Built-in	
		Maintained	2N0	NO	FA	NO	YW4L-A4E20Q3@		incandescent lamp:	
			2NC	NC	FA	NC	YW4L-A4E02Q32		LS-T®	
			1NO-1NC	NO	FA	NC	YW4L-A4E11Q32			
Note: Specify a lens color code	e in place of ② in	the Part No.							FA: Full voltage adapter	

Note: Specify a lens color code in place of ② in the Part No.

Specify an operating voltage code in place of ③ in the Part No.

FA: Full voltage adapter

Dimensions (Illuminated Pushbutton with Metal Bezel)



Selector Switches with Plastic Bezel

No. of Positions					T			Package Quantity: 1
Positions Configuration Mounting Position L R	Shape				Knob			
180					Maintained		_	_
101 2			3	•	YW1S-2E10	YW1S-21E10	_	_
2		(01)	2 3 NC		YW1S-2E01	YW1S-21E01	_	_
Color		(20)	2 3 NO	•	YW1S-2E20	YW1S-21E20	_	_
No. of N	90° 2-Position		3 NC		YW1S-2E02	YW1S-21E02	_	_
Sinc 2	L R	(11)	2 3 NC	•	YW1S-2E11	YW1S-21E11	_	_
Section Contact Contact Contact Configuration Contact Configuration Configuration Configuration Contact Configuration Configuration Configuration Contact Contact Contact Configuration Contact Contac	•	(30)	2 NO 3 NO	•	YW1S-2E30	YW1S-21E30	_	_
No. of Contact Block Operator Position No. of Configuration No. of Configuration Configuration			2 NC 3 NC	•	YW1S-2E03	YW1S-21E03	_	_
No. of Contact Configuration Contact Configuration			2 NC 3 NO	•	YW1S-2E21	YW1S-21E21	_	_
Positions Configuration Mounting Position L C R Maintained from Right from Left Two-Way			2 NC 3 NC	•	YW1S-2E12	YW1S-21E12	_	_
2NU (20) 2 NO			Mounting Position	L C R	Maintained			
2NC (2NI) 3 NO			2 3 NO		YW1S-3E20	YW1S-31E20	YW1S-32E20	YW1S-33E20
C C C C C C C C C C			2 NO 3 NO		YW1S-3E20N1	YW1S-31E20N1	YW1S-32E20N1	YW1S-33E20N1
A5° 3-Position			2 3 NC		YW1S-3E02	YW1S-31E02	YW1S-32E02	YW1S-33E02
1NO-1NC 1			2 NC 3 NC		YW1S-3E02N1	YW1S-31E02N1	YW1S-32E02N1	YW1S-33E02N1
1NO-1NC			2 3 NC		YW1S-3E11	YW1S-31E11	YW1S-32E11	YW1S-33E11
C R C C C C C C C C	45° 3-Position		2 3 NO		YW1S-3E11N1	YW1S-31E11N1 YW1S-32E11N1 YV		YW1S-33E11N1
NO-INC (11N3)	L C R		2 NC 3		YW1S-3E11N2	YW1S-31E11N2	YW1S-32E11N2	YW1S-33E11N2
NO-INC (11N4) 2	\vee		2 NC 3 NO		YW1S-3E11N3	YW1S-31E11N3	YW1S-32E11N3	YW1S-33E11N3
SNO			2 NO 3 NC		YW1S-3E11N4	YW1S-31E11N4	YW1S-32E11N4	YW1S-33E11N4
1			2 N0 3 N0	• •	YW1S-3E30	YW1S-31E30	YW1S-32E30	YW1S-33E30
2NO-1NC 2 NC			2 NC 3 NC		YW1S-3E03	YW1S-31E03	YW1S-32E03	YW1S-33E03
1NO-2NC 1 NC 2 NO • YW1S-3E12 YW1S-31E12 YW1S-32E12 YW1S-33E12			1 NO 2 NC	•	YW1S-3E21	YW1S-31E21	YW1S-32E21	YW1S-33E21
(12) 3 NC		1NO-2NC (12)	1 NC		YW1S-3E12	YW1S-31E12	YW1S-32E12	YW1S-33E12

APEM

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Relays & Sockets

Circuit Protectors

Power Supplies LED Illumination

Controllers Operator

Sensors

AUTO-ID

Flush Silhouette

ø16

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Miniature

Pilot Lights

Selector Switches with Metal Bezel

Package Quantity: 1

흕									Package Quantity: 1
ot Lights	Shape					Knob	3		
APEM Switches &								9 4	
Pilot Lights	No. of Positions	Contact Configuration	Contact Block Mounting Position	Oper I	rator Position	Maintained	Spring Return from Right	_	_
Control Boxes		1NO	1 NO		•		J		
Emergency Stop Switches		(10)	3			YW4S-2E10	YW4S-21E10	_	_
Enabling Switches		1NC	1 2			YW4S-2E01	YW4S-21E01		
Safety Products		(01)	3 NC	•		1W43-2L01	1W40-21L01	_	_
Explosion Proof		2N0 (20)	1 NO 2		•	YW4S-2E20	YW4S-21E20	_	_
Terminal Blocks			3 NO 1 NC	•	•				
Relays & Sockets	90°	2NC (02)	2 3 NC	•		YW4S-2E02	YW4S-21E02	_	_
Circuit	2-Position	1NO-1NC	1 NO		•		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Protectors Power Supplies		(11)	2 3 NC	•		YW4S-2E11	YW4S-21E11	_	_
Power Supplies		3NO	1 NO 2 NO		•	YW4S-2E30	YW4S-21E30		_
_ED Illumination		(30)	3 NO 1 NC	•	•				
Controllers		3NC (03)	2 NC	•		YW4S-2E03	YW4S-21E03	_	_
Operator Interfaces		2NO-1NC	3 NC 1 NO	•	•				
Sensors		(21)	2 NC 3 NO	•	•	YW4S-2E21	YW4S-21E21	_	_
AUTO-ID		1NO-2NC	1 NO 2 NC	•	•	YW4S-2E12	YW4S-21E12		
		(12)	3 NC	•		1W43-ZL1Z		_	_
	No. of Positions	Contact Configuration	Contact Block Mounting Position	Uper	ator Position C R	Maintained	Spring Return from Right	Spring Return from Left	Spring Return Two-Way
Flush Silhouette		2N0	1 NO	•		YW4S-3E20	YW4S-31E20	YW4S-32E20	YW4S-33E20
ø16		(20)	2 3 NO		•	1 W45-3E2U	TW45-31E20	1W43-32E2U	1W43-33E20
ø22		2N0 (20N1)	1 2 NO	•	•	YW4S-3E20N1	YW4S-31E20N1	YW4S-32E20N1	YW4S-33E20N1
ø30			3 NO NC		•				
Miniature		2NC (02)	2 3 NC			YW4S-3E02	YW4S-31E02	YW4S-32E02	YW4S-33E02
Pilot Lights		2NC	1			MANAG GEOGNIA	VANAO 04 F00N4	VANAO 00500N4	74140 00F00N4
		(02N1)	2 NC 3 NC		-	YW4S-3E02N1	YW4S-31E02N1	YW4S-32E02N1	YW4S-33E02N1
		1NO-1NC	1 NO 2	•		YW4S-3E11	YW4S-31E11	YW4S-32E11	YW4S-33E11
HW		(11)	3 NC 1 NC	_					
TW	45°	1NO-1NC (11N1)	2			YW4S-3E11N1	YW4S-31E11N1	YW4S-32E11N1	YW4S-33E11N1
YW	3-Position	1NO-1NC	3 NO 1 NO	•	•				
	LR	(11N2)	2 NC 3		•	YW4S-3E11N2	YW4S-31E11N2	YW4S-32E11N2	YW4S-33E11N2
		1NO-1NC	1 2 NC		•	YW4S-3E11N3	YW4S-31E11N3	YW4S-32E11N3	YW4S-33E11N3
		(11N3)	3 NO		•	11140 0211110	TW40 OILTING	11140 02211110	11140 00211110
		1NO-1NC (11N4)	1 2 NO	•	•	YW4S-3E11N4	YW4S-31E11N4	YW4S-32E11N4	YW4S-33E11N4
			3 NC 1 NO						
		3NO (30)	2 NO 3 NO	•	•	YW4S-3E30	YW4S-31E30	YW4S-32E30	YW4S-33E30
		3NC	1 NC			VIMAC 2F02	WWAC 21F02	VIMAC 22F02	VIMAC 22F02
		(03)	2 NC 3 NC	_		YW4S-3E03	YW4S-31E03	YW4S-32E03	YW4S-33E03
		2NO-1NC	1 NO 2 NC	•	•	YW4S-3E21	YW4S-31E21	YW4S-32E21	YW4S-33E21
		(21)	3 NO 1 NC		•				
		1NO-2NC (12)	2 NO 3 NC	•	•	YW4S-3E12	YW4S-31E12	YW4S-32E12	YW4S-33E12
	L		J NO						I.

Control Boxes

Emergency Stop Switches

Terminal Blocks Relays & Sockets

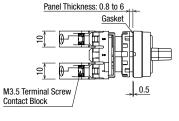
Circuit Protectors Power Supplies LED Illumination Controllers

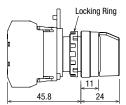
Interfaces

Sensors AUTO-ID

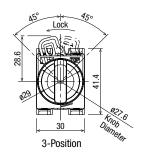
Enabling Switches Safety Products **Explosion Proof**

Selector Switch with Plastic Bezel

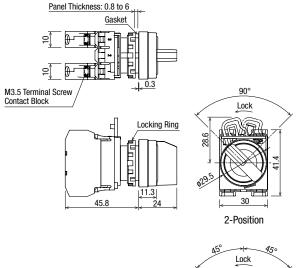


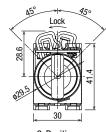






Selector Switch with Metal Bezel





3-Position

Contact Block Mounting Position

Selector Switch with Plastic Bezel

Contact Block Mounting Position



Operator Position

Selector Switch with Metal Bezel

Contact Block Mounting Position





Flush Silhouette

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Miniature

Pilot Lights

HW

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Sensors AUTO-ID

Flush Silhouette

ø16

ø30 Miniature Pilot Lights

HW

Key Selector Switches (90° 2-Position)

							Package Quantity: 1	
				Operato	r Position		t No.	
				Operato	1 1 00111011	Plastic Bezel	Metal Bezel	
No. of Positions	Contact Configuration	Contact Block Mounting Position		L	R			
		1	NO		•			
	1NO (10)	2				YW1K-2AE10	YW4K-2AE10	
	(10)	3						
	1NC	1						
	(01)	2				YW1K-2AE01	YW4K-2AE01	
	(5.7)	3	NC	•				
	2N0	1	NO		•			
	(20)	2				YW1K-2AE20	YW4K-2AE20	
		3	NO NO	_	•			
	2NC	2	NC	•		WW41/ 04E00	MMAK OAFOO	
90° 2-position	(02)	3	NC	•		YW1K-2AE02	YW4K-2AE02	
Maintained		1	NO		•			
L R	1NO-1NC	2	INO			YW1K-2AE11	YW4K-2AE11	
	(11)	3	NC	•			THE EAST	
		1	NO		•			
	3NO	2	NO		•	YW1K-2AE30	YW4K-2AE30	
	(30)	3	NO		•			
	ONIO	1	NC	•				
	3NC (03)	2	NC	•		YW1K-2AE03	YW4K-2AE03	
	(00)	3	NC	•				
	2NO-1NC	1	NO		•			
	(21)	2	NC	•		YW1K-2AE21	YW4K-2AE21	
	(= · /	3	NO		•			
	1NO-2NC	1	NO NO		•	YW1K-2AE12		
	(12)	2	NC	•		YW1K-2AE12	YW4K-2AE12	
		3	NC NO	•	•			
	1NO	2	NU			YW1K-21BE10	YW4K-21BE10	
	(10)	3				TWTK-ZIDLIU	TW4N-ZIDEIU	
		1						
	1NC	2				YW1K-21BE01	YW4K-21BE01	
	(01)	3	NC	•				
		1	NO		•			
	2N0 (20)	2				YW1K-21BE20	YW4K-21BE20	
	(20)	3	NO		•			
	2NC	1	NC	•				
90° 2-position	(02)	2	_			YW1K-21BE02	YW4K-21BE02	
Spring Return from Right	(- /	3	NC	•	_			
	1NO-1NC	1	NO		•			
L R	(11)	2	NC	•		YW1K-21BE11	YW4K-21BE11	
		3 1	NC NO	•	•			
	3NO	2	NO NO			YW1K-21BE30	YW4K-21BE30	
	(30)	3	NO			I WIN-ZIDEOU	1 W#N-2 IDE3U	
		1	NC	•				
	3NC	2	NC	•		YW1K-21BE03	YW4K-21BE03	
	(03)	3	NC	•				
		1	NO		•			
	2NO-1NC	2	NC	•		YW1K-21BE21	YW4K-21BE21	
	(21)	3	NO		•			
	100 200	1	NO		•			
	1NO-2NC (12)	2	NC	•		YW1K-21BE12	YW4K-21BE12	
	(/	3	NC	•				

[•] On the spring-returned types, the key can be removed only from the maintained position. On the maintained types, the key can be removed from every position. Key retained positions are also available. See Part No. Development shown on B-288.

[•] Each key selector switch is supplied with two identical keys.

Package Quantity: 1

No. of Positions				0	D.		Par	Part No.		
No. of Positions				L	С	R			APEM	
			1						Switc Pilot I	
	2N0		NO	•			MARK CATOO	VANAN DAEGO	Contr	
	(20)		NO				YWTK-3AE20	YW4K-3AE20	Emer	
			140						Stop	
			NO	•		•	YW1K-3AE20N1	YW4K-3AE20N1	Enab Swite	
	(ZUNT)	3	NO			•			Safet	
	2NC		NC							
			NO				YW1K-3AE02	YW4K-3AE02	Explo	
		+	NC						Term	
	-		NC		•		YW1K-3AE02N1	YW4K-3AE02N1	Relay	
	(02N1)		NC						Circu	
	1NO-1NC		NO	•					Prote	
							YW1K-3AE11	YW4K-3AE11	Powe	
		NC				VW1K-3ΔF11N1	VW/4K-3ΔF11N1	LED		
	(11N1)		NO			•	TWIN SALTINI	TWAK SALTINI	Cont	
Maintained	4110 4110	_		•					Oper	
C L R			NC		•		YW1K-3AE11N2	YW4K-3AE11N2	Inter	
	(11112)								Sens	
V	1NO-1NC		NC				WWII/ OAEIINO	VANAN OAE11NO	AUTO	
	(11N3)				•		YWIK-3AETIN3	YW4K-3AETIN3		
			INO							
			NO	•		•	YW1K-3AE11N4	YW4K-3AE11N4		
	(11114)	3	NC						Flush	
	3NO			_					ø16	
				•			YW1K-3AE30	YW4K-3AE30	ø22	
									022	
					-		YW1K-3AE03	YW4K-3AE03	ø30	
	(03)								Minia	
	2NO 1NC		NO	•						
	2NU-1NU (21)	2	NC		•		YW1K-3AE21	YW4K-3AE21	Pilot	
	\·/	3	NO NO			•				
	1NO-2NC	2	NC NO	•			YW1K-3AE12	YW4K-3AE12		
	(12)	3	NC NC				I W IN-9AE12	TW4N-SAETZ	HW	
	ne the key can be ren		1		_					

- On the maintained types, the key can be removed from every position. Key retained positions are also available. See Part No. Development below.
- Each key selector switch is supplied with two identical keys.

Part No. Development

YW1K-2 <u>A</u> E21

Key removal position code

- 2-position
- A: Removable in all positions
- B: Removable in left only
- C: Removable in right only
- 3-position
- A: Removable in all positions
- B: Removable in left and center
- C: Removable in right and center
- D: Removable in center only E: Removable in right and left
- G: Removable in left only
- H: Removable in right only

Contact Block Mounting Position

Contact Block Mounting Position





lies

Package Quantity: 1

Ē				0	D		Part	No.		
t Lights					Uper	ator Pos	ition	Plastic Bezel	Metal Bezel	
S	No. of Positions	Contact Configuration		Contact Block Mounting Position		0	R	ign.	M	
APEM					L	С	K			
Switches & Pilot Lights				NO						
Control Boxes		2N0	2	NO	•			YW1K-31BE20	YW4K-31BE20	
Emergency Stop Switches		(20)	3	NO			•			
Enabling		2N0	1	NO				MININ OF BEOOM	MILLIO OF BEOOM	
Switches		(20N1)	3	NO NO	•		•	YW1K-31BE20N1	YW4K-31BE20N1	
Safety Products			1	NC						
Explosion Proof		2NC (02)	2					YW1K-31BE02	YW4K-31BE02	
Terminal Blocks		(02)	3	NC						
Terminal blocks		2NC	1						VIII. 4 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
Relays & Sockets		(02N1)	2	NC NC		_		YW1K-31BE02N1	YW4K-31BE02N1	
Circuit Protectors			1	NO	•					
Power Supplies		1NO-1NC (11)	2					YW1K-31BE11	YW4K-31BE11	
Power Supplies		(11)	3	NC		1				
LED Illumination		1NO-1NC	1	NC				MALK OF DESCRIPT	WWW OAREAANA	
Controllers	45° 3-position	(11N1)	3	NO			•	YW1K-31BE11N1	YW4K-31BE11N1	
Operator	Spring Return from Right		1	NO	•			YW1K-31BE11N2		
Interfaces	L C R	1NO-1NC (11N2)	2	NC		•			YW4K-31BE11N2	
Sensors		(11112)	3							
AUTO-ID	V	1NO-1NC	1	NO		_		WHAT OF BEATING	WWW CAREAANO	
		(11N3)	3	NC NO		•	•	YW1K-31BE11N3	YW4K-31BE11N3	
			1	NO						
		1NO-1NC (11N4)	2	NO	•		•	YW1K-31BE11N4	YW4K-31BE11N4	
Flush Silhouette		(11114)	3	NC						
ø16		3NO	1	NO	•			VIII. 0 1 D = 00	VIII. 0 / B = 00	
ø22		(30)	3	NO NO	•		•	YW1K-31BE30	YW4K-31BE30	
			1	NC						
ø30		3NC	2	NC		•		YW1K-31BE03	YW4K-31BE03	
Miniature		(03)	3	NC						
Pilot Lights		2NO-1NC (21)		NO	•					
i iidi Ligilis				NC NO		•	•	YW1K-31BE21	YW4K-31BE21	
			3 1	NC NC						
		1NO-2NC	2	NO	•			YW1K-31BE12	YW4K-31BE12	
HW		(12)	3	NC						
	• On the enring returned ty									

[•] On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available. See Part No. Development shown on B-288.

TW

[•] Each key selector switch is supplied with two identical keys.

Package Quantity: 1

								Package Quantity: 1	_ ≅
				Ope	rator Pos	sition	Plastic Bezel	t No. Metal Bezel	ot Lights
No. of Positions	Contact Configuration		ct Block og Position	L	С	R	TRICKE BOZO	Model Boson	APEM Switches &
	2N0	1	NO	•					Pilot Lights
	(20)	2					YW1K-32CE20	YW4K-32CE20	Control Boxes
		3	NO			•			Emergency Stop Switches
	2NO	2	NO	•		•	YW1K-32CE20N1	YW4K-32CE20N1	Enabling Switches
	(20N1)	3	NO			•			
	2NC	1	NC						Safety Products
	(02)	2					YW1K-32CE02	YW4K-32CE02	Explosion Proof
	V /	3	NC						Terminal Blocks
	2NC	2	NC		•		YW1K-32CE02N1	YW4K-32CE02N1	Dalawa & Oaalasta
	(02N1)	3	NC					TWAK OLOLOLIVI	Relays & Sockets
	1NO-1NC	1	NO	•					Circuit Protectors
	(11)	2					YW1K-32CE11	YW4K-32CE11	Power Supplies
1NO-1NC		3	NC			<u> </u>			
		2	NC				YW1K-32CE11N1	YW4K-32CE11N1	LED Illumination
45° 3-position	(11N1)	3	NO			•	TWIK-320LITMI		Controllers
Spring Return from Left	4110 4110	1	NO	•					Operator
L∕r C R	1NO-1NC (11N2)	2	NC		•		YW1K-32CE11N2	YW4K-32CE11N2	Interfaces
	(11142)	3							Sensors
V	1NO-1NC	1	NO				VIII.41V 000E44N0	MANAY 000544N0	AUTO-ID
	(11N3)	3	NC NO		•	•	YW1K-32CE11N3	YW4K-32CE11N3	
		1	INO						
	1NO-1NC (11N4)	2	NO	•		•	YW1K-32CE11N4	YW4K-32CE11N4	
	(11114)	3	NC						Flush Silhouette
	3NO	1	NO	•					ø16
	(30)	2	NO NO	•		•	YW1K-32CE30	YW4K-32CE30	ø22
		3	NC NC			_			022
	3NC	2	NC		•		YW1K-32CE03	YW4K-32CE03	ø30
	(03)	3	NC						Miniature
	2NO-1NC	1	NO	•					Dilettici
	2NO-1NC (21)	2	NC		•	_	YW1K-32CE21	YW4K-32CE21	Pilot Lights
	` ,	3	NO NC			_			
	1NO-2NC	2	NC NO	•			YW1K-32CE12	YW4K-32CE12	
	(12)	3	NC	Ė			IWIN-JAULIA	TWMN-JZULTZ	HW
							Į.		

 $[\]bullet$ On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available. See Part No. Development shown on B-288.

[•] Each key selector switch is supplied with two identical keys.

Package Quantity: 1

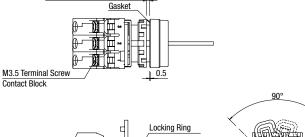
Ē					Operator Position			Part No.		
t Lights					Uper	ator Pos	ition	Plastic Bezel	Metal Bezel	
S	No. of Positions	Contact Configuration	Contact Block Mounting Position		L	0	R	TO SECOND		
APEM						С	n			
Switches & Pilot Lights			1	NO	•					
Control Boxes		2NO	2	NO				YW1K-33DE20	YW4K-33DE20	
Emergency Stop Switches		(20)	3	NO			•			
Enabling		2NO	1 2	NO	•		•	VW4K 22DE20N4	VWW 22DE20N4	
Switches		(20N1)	3	NO NO	•		•	YW1K-33DE20N1	YW4K-33DE20N1	
Safety Products			1	NC						
Explosion Proof		2NC (02)	2					YW1K-33DE02	YW4K-33DE02	
Township of Display		(02)	3	NC						
Terminal Blocks		2NC	1							
Relays & Sockets		(02N1)	2	NC				YW1K-33DE02N1	YW4K-33DE02N1	
Circuit			3 1	NC NO						
Protectors		1NO-1NC	2	INU				YW1K-33DE11	YW4K-33DE11	
Power Supplies		(11)	3	NC				TWIN GODETT	TWAK OODETT	
LED Illumination			1	NC				YW1K-33DE11N1		
	AFO O manition	1NO-1NC (11N1)	2						YW4K-33DE11N1	
Controllers	45° 3-position Spring Return Two-way	(11141)	3	NO			•			
Operator Interfaces	opring notari mo may	1NO-1NC	1	NO	•					
Sensors	L R	(11N2)	2	NC		•		YW1K-33DE11N2	YW4K-33DE11N2	
36118018			3							
AUTO-ID	·	1NO-1NC	2	NC		•		YW1K-33DE11N3	YW4K-33DE11N3	
		(11N3)	3	NO			•	TWIK GODETING	TW4N-SSUETTINS	
			1							
		1NO-1NC (11N4)	2	NO	•		•	YW1K-33DE11N4	YW4K-33DE11N4	
Flush Silhouette		(11114)	3	NC		1				
ø16		3NO	1	NO	•					
-00		(30)	2	NO	•		•	YW1K-33DE30	YW4K-33DE30	
ø22			3	NO NC			_			
ø30		3NC	1 2	NC NC		-		YW1K-33DE03	YW4K-33DE03	
Miniature		(03)	3	NC				TWIN GODLOG	I WHI GODEGO	
			1	NO	•					
Pilot Lights		2NO-1NC (21)	2	NC		•		YW1K-33DE21	YW4K-33DE21	
		(21)	3	NO			•			
		1NO-2NC	1	NC						
		(12)	2	NO	•		•	YW1K-33DE12	YW4K-33DE12	
HW		` '	3	NC						
	• On the enring-returned to	noo the key can be	romoved a	ali e fuana Alaa	::-		L:			

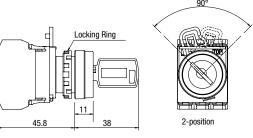
[•] On the spring-returned types, the key can be removed only from the maintained position. Key retained positions are also available. See Part No. Development shown on B-288.

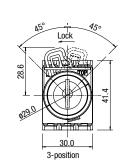
TW

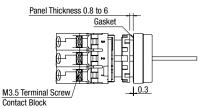
[•] Each key selector switch is supplied with two identical keys.

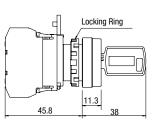
Dimensions All dimensions in mm Plastic Bezel Metal Bezel Panel Thickness 0.8 to 6 Panel Thickness 0.8 to 6

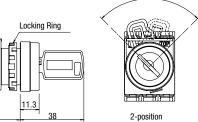


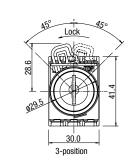












Contact Block Mounting Position

Plastic Bezel

Contact Block Mounting Position

2



Metal Bezel

Contact Block Mounting Position





Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator

Sensors

AUTO-ID

Flush Silhouette

ø16

ø30 Miniature

Pilot Lights

HW

Accessories

Name & Shape	Part No.	Description & Dimensions (mm)	Package Quantity
Locking Ring Wrench	MW9Z-T1	Metallic tool used to tighten the plastic locking ring when installing the YW series in a panel.	1
Lamp Holder Tool	OR-55	Made of rubber. Used for replacing lamps.	1
Rubber Mounting Hole Plug	OB-31PN05	Used for plugging unused mounting holes in the panel. Color: Black	5
Metallic Mounting Hole Plug	LW9Z-BM	Used for plugging unused mounting holes in the panel. Weight: Approx. 18g	1
Anti-Rotation Ring	HW9Z-RLPN10	Prevents rotation of switches in panel. Mainly used with selector switches when no nameplate is used. With waterproof gasket (IP65). Made of plastic (black). Applicable panel thickness: 1.2 to 4.5 mm	10
Padlock Cover	HW9Z-KL1	Plastic hinged cover to protect pushbuttons, illuminated pushbuttons, or selector switches. Degree of protection: IP65. Applicable panel thickness: 0.8 to 3.2 mm Pad Lock Hole Ø8 29.5 Waterproof Gasket Thickness 0.5	1

APEM witches &

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit

Protectors

Protectors

Power Supplies

LED Illumination

Controllers

Operator

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

HW TW

Maintenance Parts

- Maintonanoo i ara							
Name & Shape	Part No.		Description &	Dimensions (mm)	Package Quantity	k Pilot Lights	
Single Contact Block	YW-E10	Contact: 1NO	Color: blue			APEM Switches &	
IDEC NO.	YW-E01	Contact: 1NC	Color: reddish purple	M3.5 Terminal Screw	10	Pilot Lights Control Boxes Emergency Stop Switches Enabling Switches Safety Products	
Double Contact Block						Explosion Proof	
IDEC WESTER	YW-EW20	Contact: 2NO	Color: blue			Terminal Blocks Relays & Sockets Circuit Protectors	
IDEC YWEWII	YW-EW02 Con		Color: reddish purple		10	Power Supplies	
		Contact: 2NC		M3.5		LED Illumination Controllers	
MAN TO SERVICE OF				M3.5 Terminal Screw 41.4		Operator Interfaces	
4 整理工作				 		Sensors	
A-A-A	YW-EW11 C	Contact: 1NO-1NC	Color: blue and reddish purple	Note: Double contact blocks cannot be used on emergency stop switches.		AUTO-ID	
IDEC YW-EWO						Flush Silhouette	
LED Lamp	LSED-6@N	6V AC/DC	Specify a color code in pl		1	ø22	
	LOLD OWN		See B-271 for applicable	(pure white), R (red), S (blue), Y (yellow) units and rated current.		ø30	
40.	LSED-1@N 12	12V AC/DC	Note: Yellow LED lamps a illuminated pushbut	re used for white illumination of pilot lights and tons.		Miniature	
	LSED-2@N	24V AC/DC		BA9S/14		Pilot Lights	
	LSED-H@N	110V AC/DC					
	LSED-M32N	230/240V AC/DC		5.4 14.6		HW	
Incandescent Lamp	LS-T6P	6.3V, 1W	One pack contains 100 in	candescent lamps. Base BA9S/13		TW	
	LS-T8P	18V, 1W		100			
	LS-T3P	30V, 1W		23±1 S			
Spare Key			1				
7	YW9Z-SK00PN02				2		

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Terminal Blocks
Relays & Sockets
Circuit
Protectors
Power Supplies
LED Illumination
Controllers
Operator

Sensors AUTO-ID

Flush Silhouette

ø16

ø30 Miniature Pilot Lights

HW

Maintenance Parts

Buttons, Lenses, and Marking Plates

Name	Style	Part No.	① ② Color Code	Dimensions (mm)	Package Quantity
Button (for pushbuttons)	Extended	YW9Z-B12①PN10	B: black G: green	<u>934</u>	
	Mushroom ø40mm	YW9Z-B14①PN10	R: red S: blue W: white Y: yellow	98 10.8	10
Lens (for pilot lights)	Flush	YW9Z-PL11@PN10	A: amber C: clear G: green R: red S: blue W: white Y: yellow	(B.5.)	10
	Flush Marking	YW9Z-PL11B@PN10	A: amber C: clear G: green R: red S: blue Y: yellow		10
	Extended	YW9Z-PL12T@PN10	A: amber C: clear G: green - R: red	14.5	10
	Dome	YW9Z-PL12@PN10	S: blue W: white Y: yellow	14.5	10
Lens (for illuminated pushbuttons)	Extended	YW9Z-L12@PN10	A: amber C: clear G: green	93	
	Mushroom ø40mm	YW9Z-L14@PN10	R: red S: blue Y: yellow	9 2 10.8	10
Marking Plate (for pilot lights)	_	YW9Z-PP12PN10	_	21 2 4.4	10
Marking Plate (for illuminated pushbuttons)	_	YW9Z-P12PN10	_	15.2	10

Nameplates

HWAM, HWAQ, HWAS, and HWAV

Name	Legend	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)
HWAM	Order marking plate	Plastic (black)	HWAM	HWAM	1	Marking Plate 2.7 Marking Plate 2.7
11117 441	separately.	1.5 mm thick		HWAMPN10	10	R14.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HWAQ	Order marking plate	Plastic (black)	HWAQ	HWAQ	1	29 Marking Plate 2.7
	separately.	1.5 mm thick		HWAQPN10	10	814.9 1.9 1.9 1.9
HWAQ	Blank	Plastic (black)	HWAS-0	HWAS-0	1	1.6 0.9
	Jan	1.5 mm thick		HWAS-0PN10	10	022
HWAV	Blank	Plastic (yellow)	HWAV-0	HWAV-0	1	EMERGENCY 060
1100.00	EMERGENCY STOP	1.5 mm thick	HWAV-27	HWAV-27	1	Legend "Emergency Stop" is indicated outside a ø44mm circle.

Making Plate

Description	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)	
HW/ND	Aluminum (black)	LIWND *	HWNP-*	1	White legend on black background.	
HWNP	1.0 mm thick	⊓WNF-*	HWNP-*PN10	10	51	

• Specify a legend code in place of * in the Ordering No.

Legends

Code	Legend
0	(blank)
1	ON
2	0FF
3	START
4	STOP
31	OFF-ON
35	HAND-AUTO
53	HAND-OFF-AUTO

· Installing the marking plate on a nameplate



• To remove the marking plate, insert the flat screwdriver beween the marking plate and nameplate.



Note: When using an nameplate, the mounting panel thickness is decreased by 1.5 mm.

APEM

Control Boxes Emergency Stop Switches

Enabling Switches Safety Products

Explosion Proof Terminal Blocks

Relays & Sockets

Circuit Protectors Power Supplies

LED Illumination

Controllers Operator Sensors

AUTO-ID

Flush Silhouette

ø16

ø30

Miniature Pilot Lights

HW

Control Boxes

Stop Switches

Safety Products **Explosion Proof** Terminal Blocks

Relays & Sockets

Power Supplies

LED Illumination

Flush Silhouette

ø16

ø30 Miniature Pilot Lights

> HW TW

Controllers

Operator

Circuit

Protectors

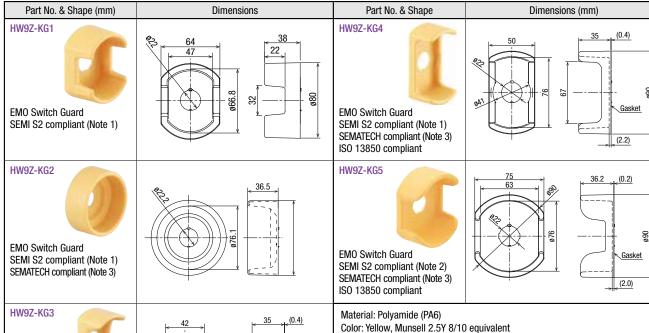
Emergency

Enabling

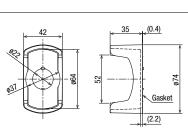
Switches

Switch Guards

Package Quantity: 1



Interfaces **EMO Switch Guard** Sensors SEMI S2 compliant (Note 1) AUTO-ID ISO 13850 compliant



Degree of protection: IP65

· Degree of protection IP65 applies to the combination of an emergency stop switch and an EMO switch guard.

Note 1: SEMI S2-0703 12.5.1 compliant.

Note 2: The combination of IDEC's emergency stop switches and EMO switch guards are approved by TÜV Rheinland for compliance with SEMI S2 standard.

Note 3: SEMATECH Application Guide for SEMI S2-93, 12.4.c. compliant.

Transformer

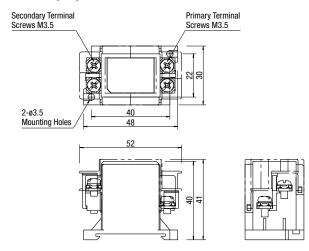
Din Rail Mount Transformer For 6V





Primary Voltage (50/60 Hz)	Part No.	Applicable Lamp Rating
110V AC	TWR516	One full voltage type illuminated unit
115V AC	TWR5116	containing LED lamp LSED-6N (6V AC/
120V AC	TWR5126	DC) or incandescent lamp LS-T6 (6.3V)
220V AC	TWR526	
230V AC	TWR5236	
240V AC	TWR5246	
380V AC	TWR5386	
440V AC	TWR546	
480V AC	TWR5486	

Dimensions (mm)



Note: Finger-safe terminal cover is supplied with the transformer.

Accessories

When ordering, specify the Ordering No.

					3, 4, 4 4 7 4 4 4 4 4
Shape	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)
DIN 35 mm Rail	Aluminum	BAA1000	BAA1000PN10	10	Length: 1000 mm Weight: 200g approx.
End Clip	Metal (zinc-plated steel)	BNL6	BNL6PN10	10	Applicable rail: AA1000, BAP1000 Weight: 15g approx.

[•] See H-071 for DIN rail products.

Safety Precautions

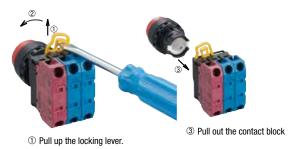
- Turn off the power to the YW series before starting installation, removal, wiring, maintenance, and inspection of the products. Failure to turn power off may cause electrical shocks or fire hazard.
- To avoid burning your hand, use the lamp holder tool when replacing lamps.
- For wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the M3.5 terminal screws to a tightening torque of 1.0 N·m. Failure to tighten the terminal screws may cause overheating and fire.

Instructions

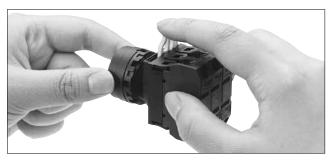
Panel Mounting

• Remove the contact block from the operator (for pilot lights, remove the transformer or full voltage unit from the pilot light). Remove the locking ring from the operator. Insert the operator into the panel cutout from the front, tighten the locking ring from the back, then install the contact block to the operator.

Removing and Installing the Contact Block



- ② Turn the lever to the left.
- 1. To remove the operator from the contact block, pull up the locking lever and turn it to the left. Then the operator can be pulled out.
- 2. To reinstall, place the TOP marking on the operator and the TOP marking on the contact block mounting adapter in the same direction, and insert the operator into the contact block mounting adapter. Then turn the locking lever to the right.



Removing and Installing the Transformer

- 1. Insert a flat screwdriver (5 mm wide at maximum) into the latch hole on the transformer unit as shown in the photo below, and disengage the latch. Then pull out the operator.
- 2. To reinstall, place the TOP marking on the operator and the latch in the same direction, and push the operator into the transformer.



Removing the Full Voltage Unit



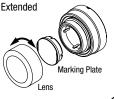
- 1. To remove the full voltage unit, squeeze the full voltage unit from both sides to disengage the latch as shown, and pull it out. Like the transformer unit, the full voltage unit can also be pulled out by inserting a flat screwdriver into the latch hole as shown.
- 2. To reinstall, place the TOP markings on the operator and the latch on the full voltage unit in the same direction, and insert the operator into the full voltage unit.

Notes for Panel Mounting

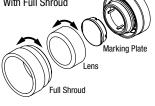
- 1. Use the optional locking ring wrench (MW9Z-T1) to mount the operator onto a panel. Tightening torque must not exceed 2.0 N·m. Do not use pliers. Excessive tightening will damage the locking ring.
- 2. For contact blocks and transformers housing LED and incandescent lamps, make sure not to press the lamps too hard, otherwise the lamp socket may be damaged.

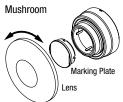
Insertion Order of Lens and Marking Plate

Illuminated Pushbutton

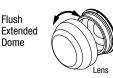


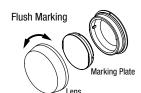






Pilot Light





APEM

Control Boxes

Emergency Stop Switches Enabling

Switches Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets Circuit

Protectors

Power Supplies LED Illumination

Controllers

Operator

Interfaces

Sensors

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Instructions

Marking

For YW series pilot lights and illuminated pushbuttons, legends and symbols can be engraved on built-in marking plates, or printed mylar film can be inserted under the lens for labeling purposes. Mylar film is not supplied with the YW series and must be supplied by the end user.

Built-in Marking Plate and Marking Film Size

Un	it	Pilot Light	Illuminated Pushbutton			
Built-in Marking Plate		Engraving Area	Engraving Area			
		Engraving depth: 0.5 mm maximum Marking plate material: White acrylic				
cable Marking Film	Applicable Marking Film	20.8 ⁰ / _{-0.2}	15.0 %2			
Appli	ndd.	0.1-mm-thick × 2 sheets or 0.2-mm-thick × 1 sheet Film material: Mylar (recommended) Note: Marking film is not supplied with the pilot light or illuminated pushbutton.				

Replacement (LED and incandescent lamps)

Lamps can be replaced using the lamp holder tool (OR-55) from the front of the panel, or by removing the contact block from the operator unit.

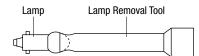
Removing the Lamp from the Front of the Panel



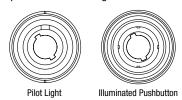
To remove, gently insert the lamp holder tool onto the lamp head. Then push slightly, and turn the lamp holder tool to the left.

Installing the Lamp from the Front of the Panel

1. To install, insert the lamp head into the lamp holder tool, and hold the lamp as shown in the figure below.



Place the pins on the lamp base to the grooves in the lamp socket. Insert the lamp and turn it to the right.



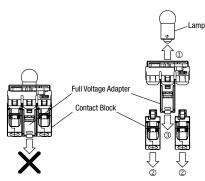
Note: LED lamps in unibody pilot lights cannot be replaced.

Removing Contact Blocks and Full Voltage Adapters

Insert a flat screwdriver between the latch and contact block mounting adapter, and disengage the latch.

Make sure to remove the lamp and contact blocks before removing the full voltage adapter.



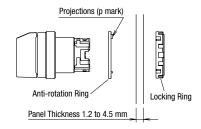


Tightening Torque for Terminal Screws

Tighten terminal screws to a torque of 1.0 N·m.

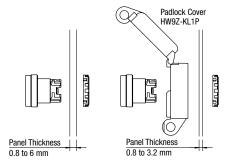
Anti-rotation Ring and Mounting Panel

Turn the TOP marking on the operator and the \triangle mark on the anti-rotation ring to the recess on the mounting panel.



Mounting Panel Thickness

The mounting panel must be 0.8 to 6.0 mm in thickness. When optional accessories are added, the applicable panel thickness changes as shown below.



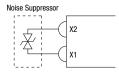
Contact Bounce

When pressing or turning the operator, the NC and NO contacts will bounce. When designing a control circuit, take the contact bounce time into consideration (reference value: 20 ms).

Instructions

Precautions for Noise

When using the unibody pilot light in an environment where it is subjected to noise, connect a noise suppressor across terminals X1 and X2 as shown below.



Kev Selector Switch

Before operation, ensure that the key is inserted into the key hole completely. Operating the key selector switch with a loose key will cause damage to the key selector switch.

LED Illumination

LED lamps consist of semiconductors. If the applied voltage exceeds the rated voltage, LED elements deteriorate due to overheat, resulting in significant decrease in brightness, hue change, or failure of lighting. Also, if extraneous noise, transient voltage, or transient current is applied to the circuit, similar effects will be caused. When using LED lamps, observe the following instructions.

Rated Voltage

The LED illuminated units are rated at 6V, 12V, 24V, 110V, or 230/240V AC/DC, and can be used within ±10% the rated voltage of either AC or DC, except the 230/240V AC/DC types can be used on 250V AC/DC maximum.

DC Power

- 1. Switching power supply Regulated voltage from a switching power supply is best suited. Make sure to use within the rated voltage of the LED lamp.
- 2. Rechargeable battery

Note that the battery voltage may exceed the rated voltage of the LED lamp while the battery is being charged and immediately after the charging is complete. Be sure to use the LED lamp on a voltage of ±10% the rated voltage, except the 230/240V AC/DC types on 250V AC/DC maximum.

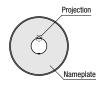
- 3. Full-wave rectification Since the LED lamp is AC/DC compatible, a diode bridge for rectification is not necessary. If the LED lamp is used on a full-wave rectification current through a diode bridge, the rectifier diodes will reduce the voltage, resulting in lower brightness.
- 4. Single-phase half-wave rectification This is not suitable for the power source of LED lamps. Use constant- voltage DC power.

Noise

LED elements deteriorate due to extraneous noise, resulting in significant decrease in brightness, hue change, or failure of lighting. When such effects are anticipated, take a protection measure shown below, such as RC elements or a surge absorber.

Nameplate

When anti-rotation is not required, remove the projection from the nameplate using pliers.



Handling

Do not expose the switch to excessive shock and vibration, otherwise the switch may be deformed or damaged, causing malfunction or operation failure.

[Protection Example 1] For AC circuit

[Protection Example 2] For DC circuit



LED with

Control Boxes Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Countermeasures against Dim Lighting

1. Leakage current through transistors or a contact protection circuit may cause the LED lamp to illuminate dimly even when the output is off.

(LED

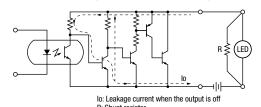
Relay coil or (Ry

□ Diode

2. When the LED lamp is illuminated by a transistor output, take the following measure.

[Circuit Example]

Connect shunt resistor R in parallel with the LED lamp.



Flush Silhouette

ø16

ø30

Miniature

Pilot Lights

HW

Ordering Information

- When ordering, specify the Part No. and quantity.
- Replacement contact blocks are supplied in a package containing 10 pieces.

SAPEN01A_B YW July 2021

Ordering Terms and Conditions

Thank you for using IDEC Products.

By purchasing products listed in our catalogs, datasheets, and the like (hereinafter referred to as "Catalogs") you agree to be bound by these terms and conditions. Please read and agree to the terms and conditions before placing your order.

1. Notes on contents of Catalogs

- (1) Rated values, performance values, and specification values of IDEC products listed in this Catalog are values acquired under respective conditions in independent testing, and do not guarantee values gained in combined
 - Also, durability varies depending on the usage environment and usage conditions.
- (2) Reference data and reference values listed in Catalogs are for reference purposes only, and do not guarantee that the product will always operate appropriately in that range.
- (3) The specifications / appearance and accessories of IDEC products listed in Catalogs are subject to change or termination of sales without notice, for improvement or other reasons.
- (4) The content of Catalogs is subject to change without notice.

2. Note on applications

- (1) If using IDEC products in combination with other products, confirm the applicable laws / regulations and standards.
 - Also, confirm that IDEC products are compatible with your systems, machines, devices, and the like by using under the actual conditions. IDEC shall bear no liability whatsoever regarding the compatibility with IDEC products.
- (2) The usage examples and application examples listed in Catalogs are for reference purposes only. Therefore, when introducing a product, confirm the performance and safety of the instruments, devices, and the like before use. Furthermore, regarding these examples, IDEC does not grant license to use IDEC products to you, and IDEC offers no warranties regarding the ownership of intellectual property rights or non-infringement upon the intellectual property rights of third parties.
- (3) When using IDEC products, be cautious when implementing the following.
 - Use of IDEC products with sufficient allowance for rating and performance
 - Safety design, including redundant design and malfunction prevention design that prevents other danger and damage even in the event that an IDEC product fails
 - Wiring and installation that ensures the IDEC product used in your system, machine, device, or the like can perform and function according to its specifications
- (4) Continuing to use an IDEC product even after the performance has deteriorated can result in abnormal heat, smoke, fires, and the like due to insulation deterioration or the like. Perform periodic maintenance for IDEC products and the systems, machines, devices, and the like in which they are used.
- (5) IDEC products are developed and manufactured as general-purpose products for general industrial products. They are not intended for use in the following applications, and in the event that you use an IDEC product for these applications, unless otherwise agreed upon between you and IDEC, IDEC shall provide no guarantees whatsoever regarding IDEC products.
 - Use in applications that require a high degree of safety, including nuclear power control equipment, transportation equipment (railroads / airplanes / ships / vehicles / vehicle instruments, etc.), equipment for use in outer space, elevating equipment, medical instruments, safety devices, or any other equipment, instruments, or the like that could endanger life or human health
 - ii. Use in applications that require a high degree of reliability, such as provision systems for gas / waterworks / electricity, etc., systems that operate continuously for 24 hours, and settlement systems
 - Use in applications where the product may be handled or used deviating from the specifications or conditions / environment listed in the Catalogs. such as equipment used outdoors or applications in environments subject to chemical pollution or electromagnetic interference If you would like to use IDEC products in the above applications, be sure to consult with an IDEC sales representative.

3. Inspections

We ask that you implement inspections for IDEC products you purchase without delay, as well as thoroughly keep in mind management/maintenance regarding handling of the product before and during the inspection.

4. Warranty

(1) Warranty period

The warranty period for IDEC products shall be one (1) year after purchase or delivery to the specified location. However, this shall not apply in cases where there is a different specification in the Catalogs or there is another agreement in place between you and IDEC.

(2) Warranty scope

Should a failure occur in an IDEC product during the above warranty period for reasons attributable to IDEC, then IDEC shall replace or repair that product, free of charge, at the purchase location / delivery location of the product, or an IDEC service base. However, failures caused by the following reasons shall be deemed outside the scope of this warranty.

- The product was handled or used deviating from the conditions / environment listed in the Catalogs
- The failure was caused by reasons other than an IDEC product
- Modification or repair was performed by a party other than IDEC
- iv The failure was caused by a software program of a party other than **IDEC**
- v. The product was used outside of its original purpose
- Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and
- vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from
- viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters) Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

- (1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
- (2) Maintenance inspections, adjustments, and repairs
- (3) Technical instructions and technical training
- (4) Product tests or inspections specified by you

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.

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