



Product Service

CERTIFICATE

No. B 013332 0221 Rev. 03

Holder of Certificate: IDEC CORPORATION

2-6-64 Nishimiyahara, Yodogawa-Ku
Osaka
532-0004 JAPAN

Certification Mark:



Product:

**Switches
Emergency Stop Switches**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 73583551-09

Valid until: 2028-12-13
Date, 2023-12-14

(Shigehisa Ishikawa)



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Model(s): XW1E, XA1E, XN1E, XN4E, XN5E series

Nomenclature:

1) XW1E series

XW1E - L V 4 x x 1 2 Q4 M R - xx - xxxxxx
I II III IV V VI VII VIII IX X XI XII

I. Basic Model Designation:

XW1E: XW1E series

II. Function:

B: Non-illuminated

L: Illuminated

T: Illuminated (Linked to operation)

III. Button Size:

3: ø 30

4: ø 40

4T: ø 38 (Round form type)

5: ø 60

IV. Contact structure:

None: Separate-body type

S: Short Uni-body type

V. Color of Body:

None: Yellow

G: Green

VI. Number of NO contact:

0 to 3

VII. Number of NC contact:

1 to 4

VIII. LED Rated Voltage:

None: Non-illuminated

Q4: AC/DC 24 V

Q3: AC/DC 12 V

Q2: AC/DC 6 V

Q1: DC 5 V

IX. Terminal Form:

None: Solder terminal

V: PWB terminal

M: M3 Screw terminal

MF: M3 Screw terminal with terminal cover, XW9Z-VL2MF

T: Tab terminal

X. Button Color:

R or R-EMO*: Red

RH or RH-EMO*: Bright Red

WR: Red (White when not illuminated)

LR: Translucent Red

N: Gray (Not suitable as emergency stop switch)

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Y: Yellow (Not suitable as emergency stop switch)
B: Black (Not suitable as emergency stop switch)
W: White (Not suitable as emergency stop switch)
S: Blue (Not suitable as emergency stop switch)
G: Green (Not suitable as emergency stop switch)

*: may be followed by letter(s) and/or number(s)

XI. Connection:

None: Without Connector PWB
BC*: With Connector on PWB (Ui=250 V)
BC: With Connector on PWB (Ui=125 V)

*: letter(s) and/or number(s)

XII. Additional letter(s) and/or number(s) (Optional):

Manufacturer control number

2) XA1E series

<u>XA1E</u>	-	<u>L</u>	<u>V</u>	<u>4</u>	<u>x</u>	<u>x</u>	<u>1</u>	<u>2</u>	<u>x</u>	<u>Q4</u>	<u>x</u>	<u>R</u>	<u>xxxxxx</u>
I		II		III	IV	V	VI	VII	VIII	IX	X	XI	XII

I. Basic Model Designation:

XA1E: XA1E series

II. Function:

B: Non-illuminated
L: Illuminated

III. Button Size:

3: $\varnothing 29 / \varnothing 30$
3T: $\varnothing 30$ (Round form type)
4: $\varnothing 40$
4T: $\varnothing 40$ (Round form type)

IV. Body Structure:

None: Separate-body type
U: Uni-body type
S: Short Uni-body type

V. Color of Body:

None: Yellow / Black
G: Green

VI. Number of NO contact:

0 to 3

VII. Number of NC contact:

1 to 4

VIII. Protection Degree:

None: IP65 (Short Uni-body type: IP65/IP66/IP67/IP69K)
K: IP40

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IX. LED Rated Voltage:

None: Non-illuminated
Q4: AC/DC 24 V
Q3: AC/DC 12 V
Q2: AC/DC 6 V
Q1: DC 5 V

X. Terminal Form:

None: Solder terminal
V: PWB terminal
T: Tab terminal

XI. Button Color:

R or R-EMO*: Red
RH or RH-EMO*: Bright Red
RM: Red (Arrow-marked button of Round Form type for Illuminated type) or
Bright Red (Arrow-marked button of Round Form type for Non-illuminated type)
WR: Red (White when not illuminated)
LR: Translucent Red
N: Gray (Not suitable as emergency stop switch)
Y: Yellow (Not suitable as emergency stop switch)
B: Black (Not suitable as emergency stop switch)
W: White (Not suitable as emergency stop switch)
S: Blue (Not suitable as emergency stop switch)
G: Green (Not suitable as emergency stop switch)

*: may be followed by letter(s) and/or number(s)

XII. Additional letter(s) and/or number(s) (Optional):

Manufacturer control number

3) XN1E, XN4E, XN5E series

XN1E - L V 4 1 2 Q4 MF R - xx - xxxxxx
I II III IV V VI VII VIII IX X XI

I. Basic Model Designation:

XN1E: XN1E series
XN4E: XN4E series
XN5E: XN5E series

II. Function:

B: Non-illuminated
L: Illuminated
T: Illuminated (Linked to operation)

III. Operation:

L: Push Lock and Turn Reset, Padlock type
D: Push Lock and Turn Reset, Indicator type
V: Push Lock and Turn Reset or Pull Reset type

IV. Button Size:

4: ø 40 (Push Lock and Turn Reset or Pull Reset type) or
ø 44 (Push Lock and Turn Reset, Padlock type and Indicator type)
5: ø 60



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V. Number of NO contact:

0 to 3

VI. Number of NC contact:

1 to 4

VII. LED Rated Voltage:

None: Non-illuminated

Q4: AC/DC 24 V

Q3: AC/DC 12 V

Q2: AC/DC 6 V

Q1: DC 5 V

VIII. Terminal Form:

None: Solder terminal

V: PWB terminal

M: M3 Screw terminal

MF: M3 Screw terminal with terminal cover, XW9Z-VL2MF

IX. Button Color:

R or R-EMO*: Red

RH or RH-EMO*: Bright Red

N: Gray (Not suitable as emergency stop switch)

Y: Yellow (Not suitable as emergency stop switch)

B: Black (Not suitable as emergency stop switch)

W: White (Not suitable as emergency stop switch)

S: Blue (Not suitable as emergency stop switch)

G: Green (Not suitable as emergency stop switch)

*: may be followed by letter(s) and/or number(s)

X. Connection:

None: Without Connector PWB

BC*: With Connector on PWB (Ui=250 V)

BC: With Connector on PWB (Ui=125 V)

*: letter(s) and/or number(s)

XI. Additional letter(s) and/or number(s) (Optional):

Manufacturer control number

4) XW1E-BS series

XW1E	-	B	S	4	B	1	2	P	R	-	xxxxxx
I		II	III	IV	V	VI	VII	VIII	IX		X

I. Basic Model Designation:

XW1E: XW1E series

II. Function:

B: Non-illuminated

III. Lock and Reset method:

S: Push/Solenoid lock and Turn/Pull reset

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IV. Button Size:

3: ø 30

4: ø 40

V. Color of Body:

None: Yellow

B: Black

G: Green

VI. Number of NO contact:

0 to 2

VII. Number of NC contact:

1 to 3

VIII. Terminal Form:

P: Push-in terminal

IX. Button Color:

R or R-EMO*: Red

RH or RH-EMO*: Bright Red

LR: Translucent Red

N: Gray (Not suitable as emergency stop switch)

Y: Yellow (Not suitable as emergency stop switch)

B: Black (Not suitable as emergency stop switch)

W: White (Not suitable as emergency stop switch)

S: Blue (Not suitable as emergency stop switch)

G: Green (Not suitable as emergency stop switch)

*: may be followed by letter(s) and/or number(s)

X. Additional letter(s) and/or number(s) (Optional):

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Parameters:

AC:	250 V, 1.5 A (AC-15) 125 V, 1.5 A (AC-15) for Connector type
DC:	30 V, 1 A (DC-13)
Contacts:	1 to 4 for NC, 0 to 3 for NO. Total 4 contacts maximum 1 to 3 for NC, 0 to 2 for NO, Total 3 contacts maximum for XW1E-BS series 1 NO for LED (max. rating 24 V AC/DC) may be provided
Solenoid:	24 Vdc
Conventional free air thermal current (Ith):	5 A 2.5 A for XW1E-BS series
Rated Insulation voltage (Ui):	300 V 250 V(screw terminal type, short-body type), XW1E-BS series
Rated Impulse withstand voltage (Uimp):	2.5 kV 1.5 kV (Connector type) 0.5 kV (Solenoid for XW1E-BS series)
Protection class:	II (Reinforced, including Live parts - metal bezels of XN4E and XN5E.)
Protection degree:	IP65 (for panel front): All models except as below IP69K/IP67/IP66 (for panel front): XW1E or XA1E, followed by designated S (Short Uni-body type); IP40 (for panel front) for XA1E followed by designated K; IP20 (for Terminal with cover, XW9Z-VL2MF)
Pollution degree:	3 (internal of LED unit for XA1E series, panel inside for Short Uni-body type and XW1E-BS series: 2)
Overvoltage category:	II
Conditional short circuit current:	1 kA
Mechanical durability:	250 000 cycles (900 cycles / hour)
Electrical durability:	100 000 cycles (900 cycles /hour)
Ambient Temperature Range:	-25 to 60 °C for XW/XA/XN series except as below -25 to 55 °C for XW/XA series (Short Uni-body, Illuminated type) -25 to 70 °C for XW/XA series (Short Uni-body, Non-illuminated type) -25 to 50 °C for XW1E-BS series
Max. Altitude:	3000 m except XW1E-BS series 2000 m for XW1E-BS series

Remarks :

When installing / inserting the equipment, all requirements
Of the mentioned test standard must be fulfilled.

XW1E-BS series: Solenoid operation is not evaluated for
emergency stop switch. (Only manual operation is evaluated.)

Tested according to: EN 60947-5-5:1997/A2:2017