



Product Service

CERTIFICATE

No. B 013332 0164 Rev. 02

Holder of Certificate: IDEC CORPORATION

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

Certification Mark:



Product:

Switches
Three position enabling 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.: 73515262-07

Valid until: 2028-05-21

Date, 2023-05-31

(Shigehisa Ishikawa)



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Model(s): HE series
(Refer to Nomenclature for detail)

Nomenclature:

HE1B - $\frac{M}{I}$ $\frac{1}{II}$ $\frac{N}{III}$ - $\frac{Z}{IV}$

I: Action

M: Momentary

II: Number of contact of 3 position switch

1: 1 contact

III: Mounting style

Blank: Side mounting

N: Top mounting

IV: Additional letter(s) and/or number(s) for manufacturer control number (optional)

<for critical (due to current-carrying related parts)>

TK2040-1: with harness

<for non-critical>

except listed above

HE2B - $\frac{M}{I}$ $\frac{2}{II}$ $\frac{0}{III}$ $\frac{0}{IV}$ $\frac{x}{V}$ $\frac{P}{VI}$ $\frac{y}{VII}$ - $\frac{z}{VIII}$

I: Action

M: Momentary

II: Number of contact of 3 position switch

2: 2 contacts

III: Release monitor switch

0: none

1: 1 contact

2: 2 contacts

IV: Push monitor switch

0: None

1: 1 contact

2: 2 contacts

V: Operating force (position 2 to 3)

Blank: Standard type

H: High operating force



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VI: Flange and rubber boot

Blank: Circumference flange without rubber boot
P: Circumference flange with rubber boot
F: Both-end flange without rubber boot

VII: Material and color of rubber boot

Blank: without rubber boot
Y: silicon rubber / Yellow
B: silicon rubber / Black
Y1: NBR/PVC Polyblend / Yellow
B1: NBR/PVC Polyblend / Black
N1: NBR/PVC Polyblend / Gray

VIII: Additional letter(s) and/or number(s) for manufacturer control number (optional)

<for critical (due to current-carrying related parts)>

TK2169-1: Two TK2169* with harness and connector

TK2169-3: TK2169* with harness and connector

(*TK2169 is not a critical option itself but explanatory: With mounting pin, Bonded terminals of 3 pos. SW at 75°. Earlier OFF timing at release monitor contact)

<for non-critical>

except listed above

HE3B - $\frac{M}{I}$ $\frac{2}{II}$ $\frac{x}{III}$ $\frac{P}{IV}$ $\frac{y}{V}$ - $\frac{z}{VI}$
HE5B

I: Action

M: Momentary

II: Number of contact of 3 position switch

2: 2 contacts

III: Operating force (position 2 to 3)

Blank: Standard type

H: High operating force

IV: Rubber boot

Blank: Without rubber boot

P: With rubber boot

V: Material and color of rubber boot

Blank: without rubber boot

Y: silicon rubber / Yellow

B: silicon rubber / Black

Y1: NBR/PVC Polyblend / Yellow

B1: NBR/PVC Polyblend / Black

N1: NBR/PVC Polyblend / Gray

VI: Additional letter(s) and/or number(s) for manufacturer control number (optional, not critical part)

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Parameters:

Electrical ratings:	See below for details
Rated insulation voltage:	250V or 125V
Rated impulse withstand voltage:	2.5, 2.0 or 1.5kV
Degree of protection:	IP 40 or 65
Pollution degree:	2 or 3
Conventional free air thermal current:	3A or 5A
Mechanical durability (position 1>2>1):	1,000,000 cycles
Mechanical durability (position 1>2>3>1):	1,000,000 cycles for Models HE2B series
Mechanical durability (position 1>2>3>1):	100,000 cycles except Models HE2B series
Electrical durability (position 1>2>3>1):	100,000 cycles
Overvoltage category:	II

Remark:

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

Ratings:

Model	Type of switch	Utilization category	Rated voltage (Ue)	Rated current (Ie)
HE1B	3-position switch	AC-15 DC-13	250 VAC 125 VDC	0.75 A 0.22 A
HE2B	3-position switch	AC-12 DC-12 DC-13	250 VAC 30 VDC 30 VDC	0.5 A 1 A 0.7 A
	monitor switch with silver contact	AC-15 DC-13	250 VAC 125 VDC	0.5 A 0.22 A
	monitor switch with gold overlaid contact	AC-15 DC-13 AC-15 DC-13	250 VAC 125 VDC 250 VAC 30 VDC	0.5 A 0.22 A 0.75 A 2.3 A
HE3B	3-position switch	AC-12 DC-12 DC-12	125 VAC 125 VDC 30 VDC	1 A 0.2 A 1 A
HE5B	3-position switch	AC-12 DC-12	125 VAC 30 VDC	0.5 A 1 A

Tested according to: EN IEC 60947-5-8:2021