Fe *e-Front runners*

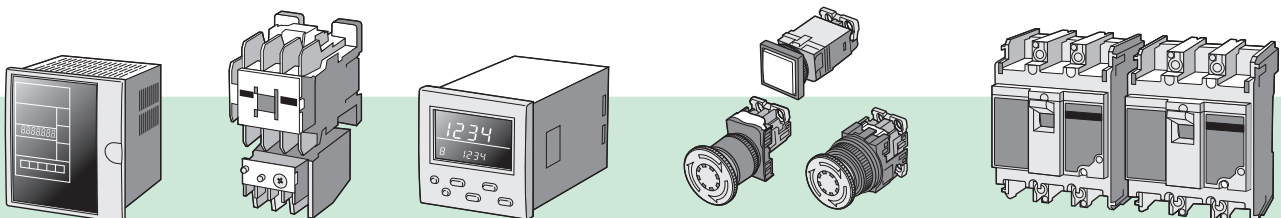**FUJI ELECTRIC**

Vol. 9

FUJI ED&C TIMES

New Products

Modified Products

Discontinued Products

New Products

DP36 and DP40 LED illuminated short-body pilot lights

Short-body with depth of 50mm pilot lights added

■ Features

- The new type pilot lights employ high-brightness LED.
- For rectangular 2-split or 3-split model, the unitization of LED facilitates change of colors and change of color layout.
- Lettering can be made on legend film.
- Terminal cover is provided as standard.

DP36S1N   DP36T2N

DP40S1N   DP40T3N
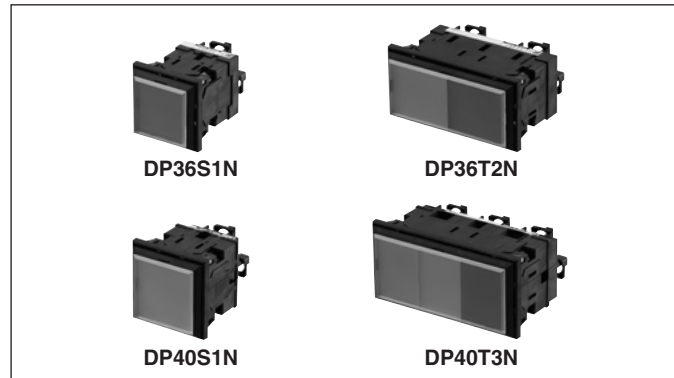
■ DP36 series (LED illuminated, full voltage, short-body)

	Illuminated face	Illumination type	LED lamp voltage	Illuminated color code	Type
	36mm square	Full-face single color	24V AC/DC	Red (R) Green (G) Yellow (Y) Orange (A) White (W) Blue (S) Pure-white (P)	**DP36S1N-☐ES**
	Rectangular 36mm x 72mm	Full-face single color	24V AC/DC	Red (R) Green (G) Yellow (Y) Orange (A) White (W)	**DP36T1N-☐ES**
		2-split 2-color	24V AC/DC	Blue (S) Pure-white (P)	**DP36T2N-☐☐ES**
		3-split 3-color	24V AC/DC		**DP36T3N-☐☐☐ES**

Note: Replace the ☐ marks by the illuminated color codes.

• DP40 series (LED illuminated, full voltage, short-body)

	Illuminated face	Illumination type	LED lamp voltage	Illuminated color code	Type
	40mm square	Full-face single color	24V AC/DC	Red (R) Green (G) Yellow (Y) Orange (A) White (W) Blue (S) Pure-white (P)	**DP40S1N-☐ES**
	Rectangular 40mm x 80mm	Full-face single color	24V AC/DC	Red (R) Green (G) Yellow (Y) Orange (A) White (W)	**DP40T1N-☐ES**
		2-split 2-color	24V AC/DC	Blue (S) Pure-white (P)	**DP40T2N-☐☐ES**
		3-split 3-color	24V AC/DC		**DP40T3N-☐☐☐ES**

Note: Replace the ☐ marks by the illuminated color codes.

■ Dimensions, mm

• DP36 series

· Square (36 x 36mm)

Panel cutting

Mass 46g

· Rectangular (36 x 72mm)

DP36T1N, DP36T2N   DP36T3N   Panel cutting

Jumper plate DN6Y001-05 (except for DP36T2N)

Mass 83g   Mass 95g
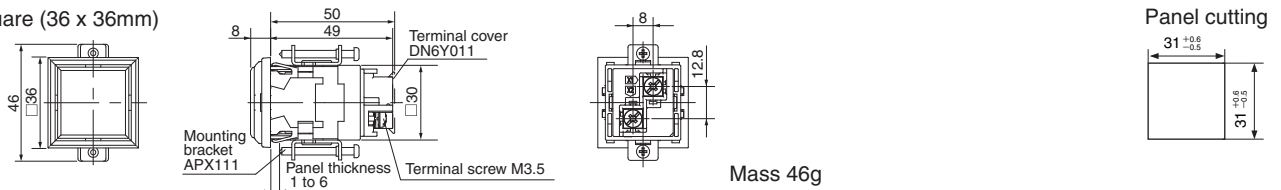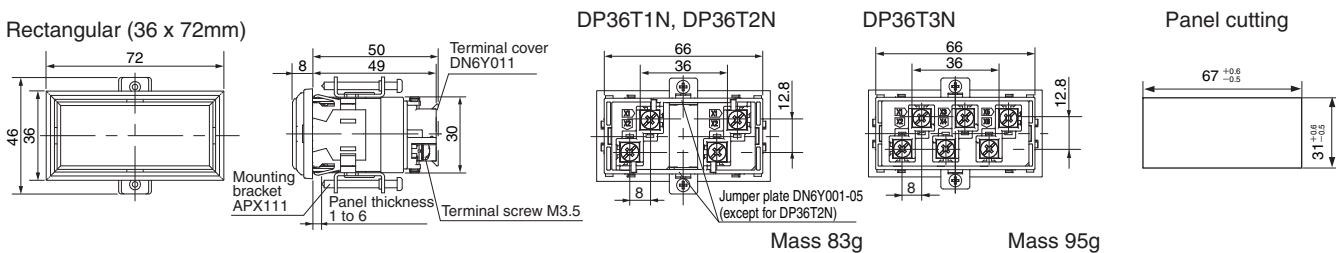
• DP40 series

· Square (40 x 40mm)

Panel cutting

Mass 49g

· Rectangular (40 x 80mm)

DP40T1N, DP40T2N   DP40T3N   Panel cutting

Jumper plate DN6Y001-05 (except for DP36T2N)

Mass 96g   Mass 103g
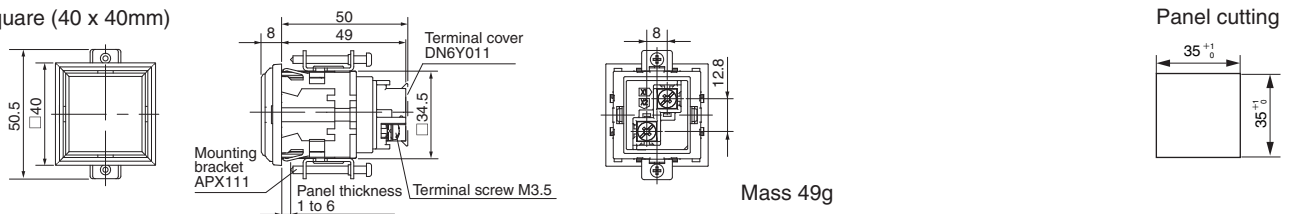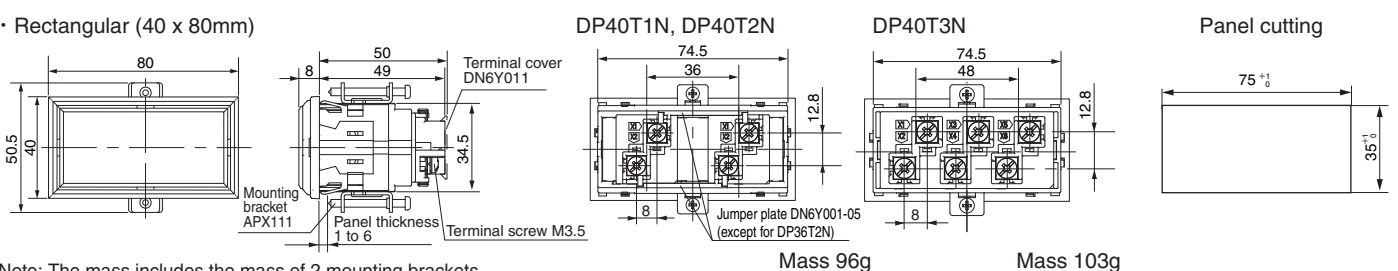
Note: The mass includes the mass of 2 mounting brackets.

New Products

AS-Interface Digital picking slave FM4DP

Digital picking slaves with spotlight and without 7-segment display

■ Features

- The spotlight improves visibility by illuminating objects to be picked in dark environments, thus helping to raise the quality of picking work.
- A new type with no 7-segment display expands applications
- An excellent user interface achieved with a dedicated FB (function block) combining FUJI's PLC MICREX-SX.
- Ideal for small- and medium-scale digital picking systems
- A 2-core type made possible with AS-interface communications.
- Communication signals can be transmitted through the power supply cable.
- Layout changes can be made using the AS-i's flexible wiring method without requiring manufacturer-authorized engineers, thus contributing to a considerable reduction in total costs during the life cycle total of customer's product.
- Like other slaves, advanced piercing technology is used for AS-i cable connection, allowing the cable to be crimped and connected with ease.
- The pushbutton switch has a positive clicking feel and distinctive coloring.

05-219
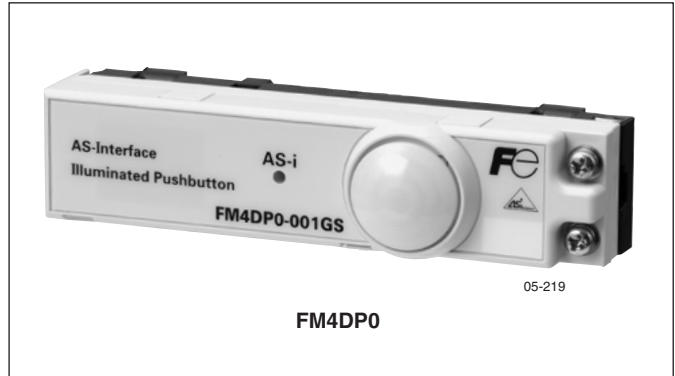
FM4DP0

FM4DP2 with 7-segment display and spotlight
- The addition of the spotlight to the 7-segment display helps reduce errors by turning on the spotlight together with pushbutton illumination.
- Up to 31 units can be connected per segment.

FM4DP0 with Illuminated pushbutton and spotlight
- Slave with illuminated pushbutton switch and spotlight
- Ideal for simple picking from component racks.
- Up to 62 units can be connected per segment.

■ Types

7-segment display color 10's digit	1's digit	Illuminated pushbutton color	Spotlight (Red)	Slave type	Type
Green	Red	Green	Provided	Standard slave	**FM4DP2-GR1GS**
		Red			**FM4DP2-GR1RS**
Red	Red	Green			**FM4DP2-RR1GS**
		Red			**FM4DP2-RR1RS**
—	—	Green		A/B slave	**FM4DP0-001GS**
		Red			**FM4DP0-001RS**
		Green	Not provided	A/B slave	**FM4DP0-001G**
		Red			**FM4DP0-001R**

■ Ratings and specifications

Type		FM4DP2-□1□S	FM4DP0-001□S	FM4DP0-001□
Slave type		Standard slave	A / B slave	
AS-i profile (IO, ID, ID2)		7, F, 7	7, A, E (ID1: Variable between 0 to 7. Default is 7.)	
Current consumption		75mA max. (with "88" displayed on 7-segment display and illuminated pushbutton switch ON) 45mA max. (with 7-segment display and illuminated pushbutton switch turned OFF)	65mA max. (with illuminated pushbutton switch ON) 45mA max. (with illuminated pushbutton switch OFF)	
Display	AS-i	Green LED ON: AS-i power supply turned ON (Normal operation) Red LED and orange (red mixed with green) LED lit alternately: address 0 Red LED lit: Communications error Illuminated pushbutton switch		
	7-segment 2 digits display	Provided	Not provided	
	Spotlight (red)	Provided (Character height: 13 to 14mm)		Not provided
Input signal		1NO contact (pushbutton switch)		
Output signal		• Illuminated pushbutton switch ON • 7-segment display	Illuminated pushbutton switch ON and connector on the side of the unit [3]	
Logic allocations	Input [1]	Pushbutton switch: Data bit D0		
	Output	Pushbutton switch ON, spotlight,[2] 7-segment display: Data bit: D0 to D3		
Degree of protection		IP40		
Pushbutton switch	Operation force	1.1 to 1.7N		
	Durability	3 millions (at switching speed of 3,600 times/h with a maximum operation force of 2N)		
	Control structure strength	Operating direction 30N (with no deformation of the control structure or operation errors)		
Temperature	Operating temperature range	−10°C to +40°C (with no condensation or no icing)		
	Storage temperature range	−25°C to +70°C (with no condensation or no icing)		
Operating ambient humidity		35 to 85% RH (with no condensation)		
Electrical protection for AS-i connection	Reverse polarity protection	Built in		
	Electrostatic discharge resistance	Contact discharge method: ±4kV; Aerial discharge method: ±8kV; IEC61000-4-2 (Class A)		
	Electromagnetic field noise	80 to 1000MHz, electric field strength: 10V/m: IEC61000-4-3 (Class A)		
	Burst noise	2kV (Class B) / 1kV (class A), IEC61000-4-4		
Shock resistance		Screw mounting: 300m/s^2 (18ms), IEC68-2-27		
Vibration resistance		Screw mounting: 10 to 55Hz, 1.0mm one-way amplitude, IEC68-2-6		
Mounting pipe diameter		27 to 30mm dia.		

[1] An input signal with a minimum duration of 150ms is accepted normally. If the duration is less than 150ms, the input will not always be accepted.
[2] The spotlight operates together with the illuminated pushbutton switch.

[3] The two-pin connector on the side of the unit is available on the FM4DP0-001 □ only. The illuminated pushbutton switch and two-pin connector are connected in parallel.

■ Dimensions, mm
• FM4DP0
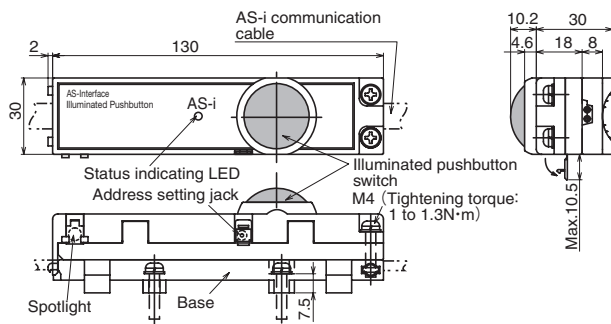
Panel drilling (Base screw mounting)
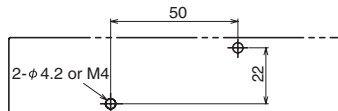
• FM4DP2

Pipe mounting

Modified Products
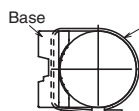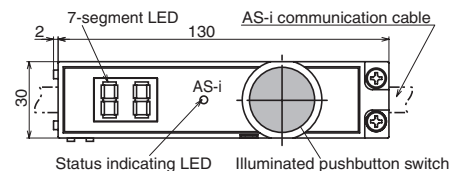
General purpose relays/HH22, 23, 24 series

Change in the position of nameplates

• Nameplate position:
  Changed so that the nameplate information can be identified
  when the product is mounted (including dense mounting).

• Lot number configuration:
  Changed to clarify the date of production.

Conventional → New
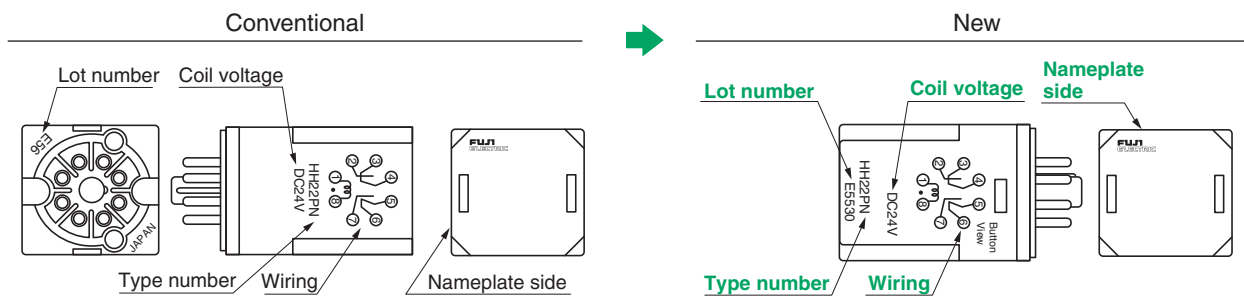
■ Time of modification: October 2005

Industrial control relays/HH52, 53, 54 and HH62 series

Change in company logo of enclosures

• Miniature control relays:
  HH52, 53, 54

• Miniature power relays:
  HH62

Conventional → New
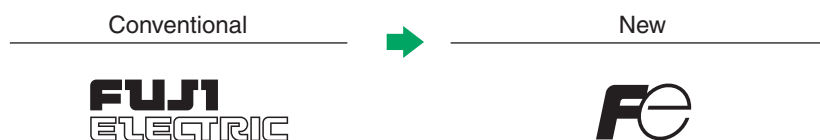
■ Time of modification: May 2005

Phase sequence protective relays/QE series

Change in company logo of enclosures

Protective relays: QE-20N
                   QE-20NL
                   QE-40N

Conventional → New
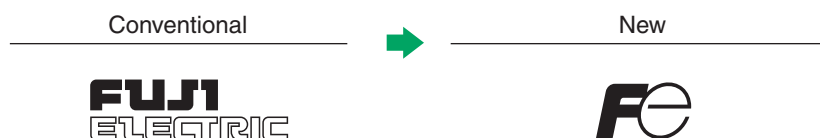
■ Time of modification: May 2005

Miniature power relays/HH63, 64 series

Change in the color of the terminal base

The color of the terminal base has been changed to black for uniformity with the HH5☐-series miniature control relays.

• 3PDT: HH63P, HH63P-L
• 4PDT: HH64P, HH64P-L

Conventional ➡ New

White

Black

2.2mm-wide groove added
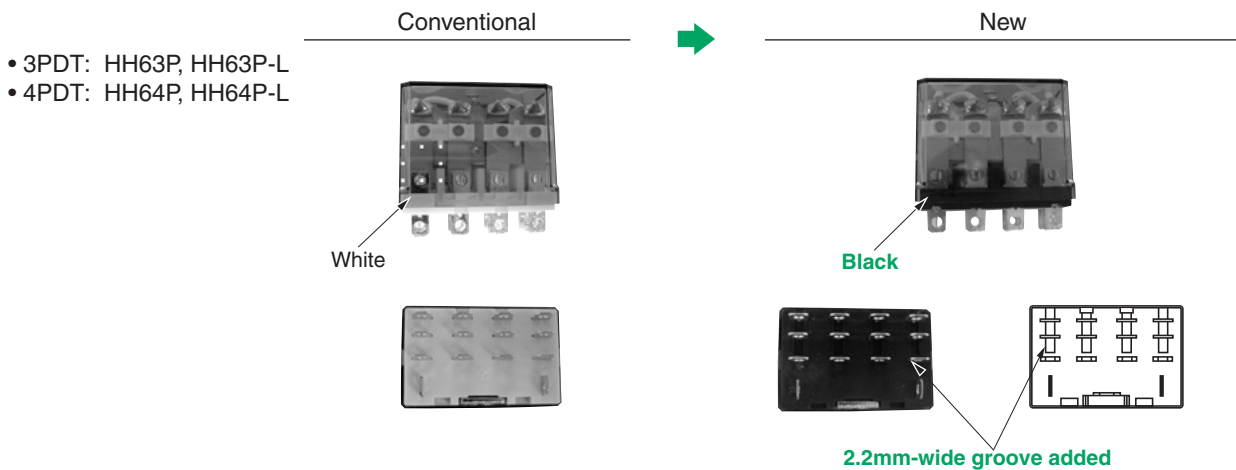
■ Time of modification: June 2005

Time delay relays/Socket for flush mounting

Change in shape of soldering socket

Knurling has been added around part of the socket. Also, the chamfer (R) on the bottom has been reduced.

• ATX1NS

Conventional ➡ New

Knurl **Chamfering (R)**
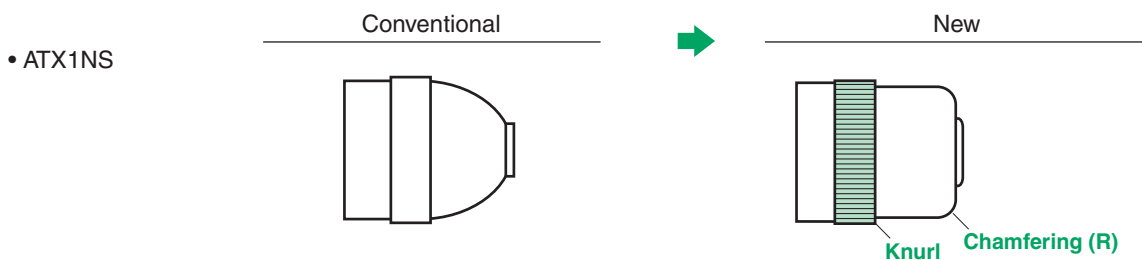
■ Time of modification: June 2005

Pushbuttons, selectors/AH164, AH165, AH165-2, AG22, AG23 series

Change in shape and logo mark of contact blocks, AGX001

The terminal number indication (typeface and size) has been changed to improve visibility.

• Contact blocks
  Solder/tab terminal: AGX001
  Wire-wrap terminal: AGX001-W

Conventional	New

Terminal number
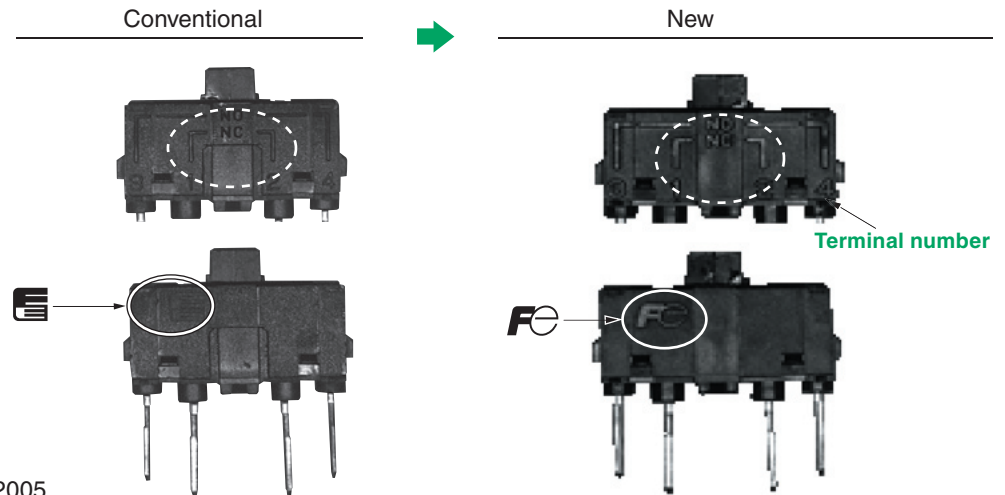
■ Time of modification: September 2005

Inductive proximity switches/Sensor and amplifier separated PE-L

Change of cable specifications

• Analog output type sensor
  External dia. M12: PE-LS2
            M18: PE-LS5
            M30: PE-LS10

Conventional	New

Example: PE-LS2
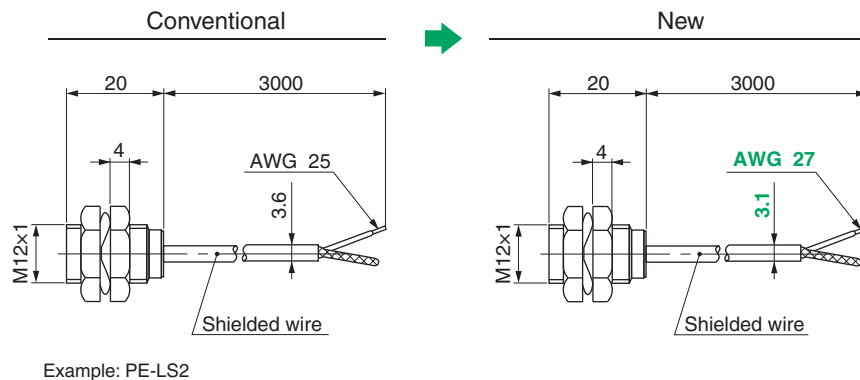
■ Time of modification: October 2005

AS-Interface/FM6D, FM6A

Flat waterproof slave change

Conventional	→	New

FM6D1, FM6DB1
Laser printing

Input/output specification indication

Type number

FM6A
Laser printing

Input/output current range

AS-i profile

Input/output current range

AS-i profile

Input/output specification indication

Type number
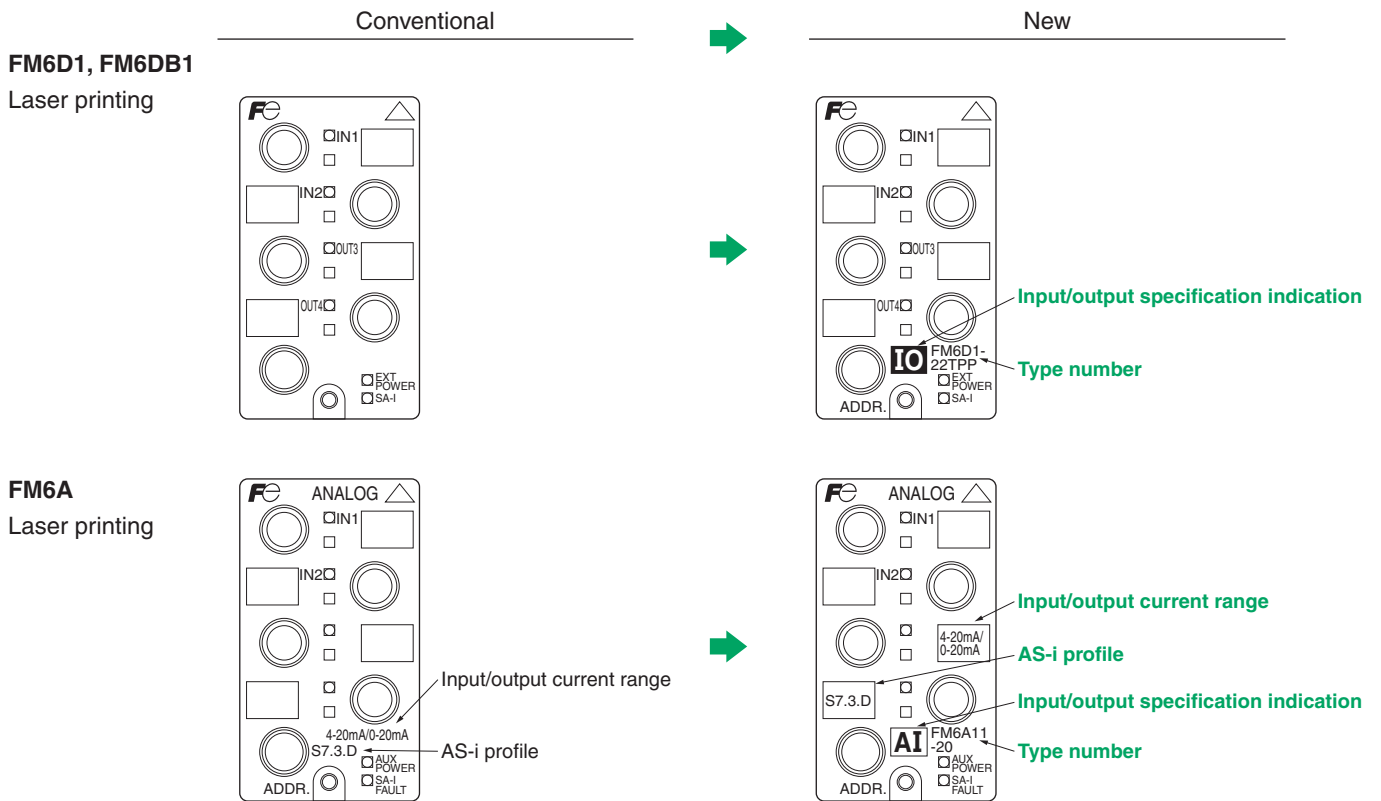
Input/output specification indication

$\boxed{I}$: NPN input $\blacksquare I$: PNP input $\boxed{AI}$: Analog input

$\boxed{O}$: NPN output $\blacksquare O$: PNP output $\boxed{AO}$: Analog output

$\boxed{IO}$: NPN input/output $\blacksquare IO$: PNP input/output

■ Time of modification: July 2005

Limit switches/AL-S series

Changes in materials and colors of actuator and cover

Top push rod plunger: **AL-SP11**
Top roller lever plunger: **AL-SK11**
Reversing top roller lever plunger: **AL-SK21**

	Conventional	New
• Color of actuator	Dark green	**Grey**
• Color of cover	Ivory	**Black**
• Name plate material	Aluminum plate	**Printed on the cover**
• Screw material for cover and actuator	Galvanized Hexavalent chromate treatment	**Galvanized RoHs compliant Trivalent chromate treatment**
• Screw material for terminals	Brass (Nickel-plated)	**Steel (Nickel-plated) Strong engagement**
• Cable sealing parts	Seal affixed	**Plastic cover**
• Approval	None	**TÜV marking, IEC 60947-5-1**

Roller lever: **AL-SN11**
Adjustable length roller lever: **AL-SN21**
Adjustable length rod lever: **AL-SN31**

	Conventional	New
• Color of actuator	Dark green	**Grey**
• Color of cover	Ivory	**Black**
• Name plate material	Aluminum plate	**Printed on the cover**
• Screw material for cover and actuator	Galvanized Hexavalent chromate treatment	**Galvanized RoHs compliant Trivalent chromate treatment**
• Screw material for lever	Black colored	**Galvanized RoHs compliant Trivalent chromate treatment**
• Screw material for terminals	Brass (Nickel-plated)	**Steel (Nickel-plated) Strong engagement**
• Cable sealing parts	Seal affixed	**Plastic cover**
• Lubricating oil of actuator	Grease	**Fluoro oil**
• Approval	None	**TÜV marking, IEC 60947-5-1**

■ Time of modification: October 2005

α-TWIN series MCCBs EA62C/□-CE, 63C/□-CE, 63CM/□-CE

Nameplate change in the interrupting capacity

E series
EA62C/□-CE, 63C/□-CE, 63CM/□-CE

Interrupting capacity: 380V AC
IEC 60947-2, JIS C8201-2 (Icu/Ics)

■ Time of modification: January 2006

Conventional	New
2.5/2 kA	**5/3 kA**


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Fuji Electric FA
FUJI AUTO BREAKER
EA63C    -CE
Ui AC690 V    Uimp.6kV
Ue Max. AC500V
40℃ 50-60Hz      CAT. A
INTERRUP. CAP. Sym. kA
IEC60947-2    Ue  Icu/Ics
EN60947-2     500V 1.5/1
JISC8201-2    440V 2.5/2
              415V 2.5/2
              400V 2.5/2
60 A          380V  5/3
⟨PS⟩E JET FE  230V  5/3
AC220V 5 kA
              PUSH
              TO ▶
              TRIP
0507
JAPAN
```
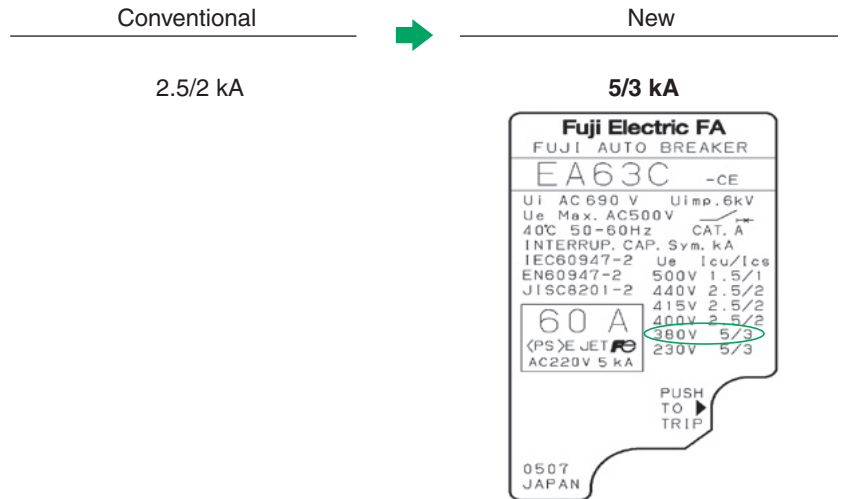
MCCBs and ELCBs

Terminal cover change in shape, long and short types

• **Front mounting, rear connection**
  Flush mounting

For SA603RC/□-CE, SA803RC/□-CE
    EA603C/□-CE, EA803C/□-CE
    H603B, H603R
    H803B, H803R

For SG603RC/□-CE, SG803RC/□-CE
    EG603C/□-CE, EG803C/□-CE
    HG603B
    HG803B

■ Time of modification: October 2005

Conventional	New
Press-fitting into terminal screw	**Engaged with breakers**
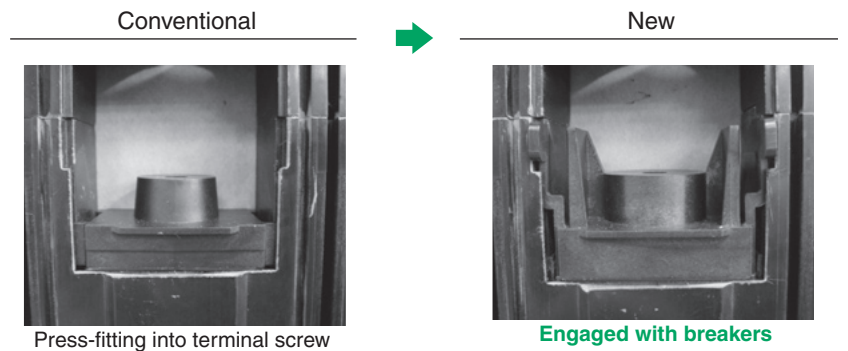
Discontinued Products

The production of the following products has or will soon be discontinued.
Please use substituting models.

Display lights
AP24, 30, 35, 36, 48 series

• AP24 series, 24 x 48 mm

	Discontinued	→	Substitute
Full face, LED:	AP24-T1☐E3		**DP24T1N-☐E3**
	AP24-T1☐H3		**DP24T1N-☐H3**
	AP24-T1☐M3		**DP24T1N-☐M3**
	AP24-T1☐CE3		**DP24T1N-☐E3C**
Full face 2-color, LED:	AP24-T4RGE3		**DP24T4N-FE3**

• AP30 series, 35 x 70 mm

	Discontinued	→	Substitute
Full face, LED:	AP30-T1☐-E3		None
	AP30-T1☐-H3		None
	AP30-T1☐-M3		None
2-split face, LED:	AP30-T2☐-E3		None
	AP30-T2☐-H3		None
	AP30-T2☐-M3		None
3-split face, LED:	AP30-T3☐-E3		None
	AP30-T3☐-H3		None
	AP30-T3☐-M3		None
Full face, incandescent:	AP30-T1☐-E		None
	AP30-T1☐-H		None
	AP30-T1☐-M		None
2-split face, incandescent:	AP30-T2☐-E		None
	AP30-T2☐-H		None
	AP30-T2☐-M		None
3-split face, incandescent:	AP30-T3☐-E		None
	AP30-T3☐-H		None
	AP30-T3☐-M		None

• AP35 series, 40 x 40 mm

	Discontinued	→	Substitute
Full face, LED:	AP35-S1☐-E3		**DP40S1N-☐E3**
	AP35-S1☐-H3		**DP40S1N-☐H3**
	AP35-S1☐-M3		**DP40S1N-☐M3**
	AP35-S1☐-H7		**DP40S1N-☐H3**
Full face, incandescent:	AP35-S1☐-E		**DP40S1N-☐E4**
	AP35-S1☐-H		**DP40S1N-☐H4**
	AP35-S1☐-M		**DP40S1N-☐M4**

■ Time of discontinuation: December 2005
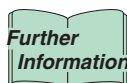
Further Information *Contact FUJI for details of substituting models.*

• **AP35 series 40 x 80 mm**	Discontinued	Substitute
Full face, LED:	AP35-T1☐-E3 AP35-T1☐-H3 AP35-T1☐-M3 AP35-T1☐-H7	**DP40T1N-☐E3** **DP40T1N-☐H3** **DP40T1N-☐M3** **DP40T1N-☐H3**
2-split face, LED:	AP35-T2☐☐-E3 AP35-T2☐☐-H3 AP35-T2☐☐-M3 AP35-T2☐☐-H7	**DP40T2N-☐☐E3** **DP40T2N-☐☐H3** **DP04T2N-☐☐M3** **DP40T2N-☐☐H3**
3-split face, LED:	AP35-T3☐☐☐-E3 AP35-T3☐☐☐-H3 AP35-T3☐☐☐-M3 AP35-T3☐☐☐-H7	**DP40T3N-☐☐☐E3** **DP40T3N-☐☐☐H3** **DP40T3N-☐☐☐M3** **DP40T3N-☐☐☐H3**
Full face, incandescent:	AP35-T1☐E AP35-T1☐H AP35-T1☐M	**DP40T1N-☐E4** **DP40T1N-☐H4** **DP40T1N-☐M4**
2-split face, incandescent:	AP35-T2☐☐E AP35-T2☐☐H AP35-T2☐☐M	**DP40T2N-☐☐E4** **DP40T2N-☐☐H4** **DP40T2N-☐☐M4**
3-split face, incandescent:	AP35-T3☐☐☐E AP35-T3☐☐☐H AP35-T3☐☐☐M	**DP40T3N-☐☐☐E4** **DP40T3N-☐☐☐H4** **DP40T3N-☐☐☐M4**

• **AP36 series, 36 x 36 mm**	Discontinued	Substitute
Full face, LED:	AP36-S1☐E3 AP36-S1☐H3 AP36-S1☐M3 AP36-S1☐H7 AP36-S1☐E3C AP36-S1☐E3FA AP36-S1☐E3FD AP36-S1☐CE3	**DP36S1N-☐E3** **DP36S1N-☐H3** **DP36S1N-☐M3** **DP36S1N-☐H3** None **DP36S1N-☐EA** **DP36S1N-☐ED** **DP36S1N-☐E3C**
Full face 2-color, LED	AP36-S4RGE3	**DP36S4N-FE3**
Full face, incandescent:	AP36-S1☐E AP36-S1☐H AP36-S1☐M AP36-S1☐H6	**DP36S1N-☐E4** **DP36S1N-☐H4** **DP36S1N-☐M4** None

■ Time of discontinuation: December 2005
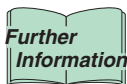
Further Information *Contact FUJI for details of substituting models.*

• AP36 series 36 x 72 mm	Discontinued	➡	Substitute
Full face, LED:	AP36-T1☐E3		**DP36T1N-☐E3**
	AP36-T1☐H3		**DP36T1N-☐H3**
	AP36-T1☐M3		**DP36T1N-☐M3**
	AP36-T1☐H7		**DP36T1N-☐H3**
	AP36-T1☐E3C		None
	AP36-T1☐CE3		**DP36T1N-☐E3C**
2-split face, LED:	AP36-T2☐☐E3		**DP36T2N-☐☐E3**
	AP36-T2☐☐H3		**DP36T2N-☐☐H3**
	AP36-T2☐☐M3		**DP36T2N-☐☐M3**
	AP36-T2☐☐H7		**DP36T2N-☐☐H3**
	AP36-T2☐☐E3C		None
	AP36-T2☐☐CE3		**DP36T2N-☐☐E3C**
3-split face, LED:	AP36-T3☐☐☐E3		**DP36T3N-☐☐☐E3**
	AP36-T3☐☐☐H3		**DP36T3N-☐☐☐H3**
	AP36-T3☐☐☐M3		**DP36T3N-☐☐☐M3**
Fll face 2-color, LED:	AP36-T4RGE3		**DP36T4N-FE3**
Full face, incandescent:	AP36-T1☐E		**DP36T1N-☐E4**
	AP36-T1☐H		**DP36T1N-☐H4**
	AP36-T1☐M		**DP36T1N-☐M4**
	AP36-T1☐H6		None
2-split face, incandescent:	AP36-T2☐☐E		**DP36T2N-☐☐E4**
	AP36-T2☐☐H		**DP36T2N-☐☐H4**
	AP36-T2☐☐M		**DP36T2N-☐☐M4**
	AP36-T2☐☐H6		None
3-split face, incandescent:	AP36-T3☐☐☐E		**DP36T3N-☐☐☐E4**
	AP36-T3☐☐☐H		**DP36T3N-☐☐☐H4**
	AP36-T3☐☐☐M		**DP36T3N-☐☐☐M4**

• AP48 series, 48 x 48 mm	Discontinued	➡	Substitute
Full face, LED:	AP48-S1☐E3		**DP48S1N-☐E3**
	AP48-S1☐H3		**DP48S1N-☐H3**
	AP48-S1☐M3		**DP48S1N-☐M3**
	AP48-S1☐H7		**DP48S1N-☐H3**
	AP48-S1☐E3C		None
	AP48-S1☐E3FA		**DP48S1N-☐EA**
	AP48-S1☐E3FD		**DP48S1N-☐ED**
	AP48-S1☐CE3		**DP48S1N-☐E3C**
2-split face, LED:	AP48-S2☐☐E3		**DP48S2N-☐☐E3**
Full face 2-color, LED:	AP48-S4RGE3		**DP36S4N-FE3**
Full face, incandescent:	AP48-S1☐E		**DP48S1N-☐E4**
	AP48-S1☐H		**DP48S1N-☐H4**
	AP48-S1☐M		**DP48S1N-☐M4**
	AP48-S1☐H6		None

■ Time of discontinuation: December 2005
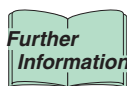
Further Information *Contact FUJI for details of substituting models.*

• **AP36 series 48 x 96 mm**	Discontinued	Substitute
Full face, LED:	AP48-T1☐E3	**DP48T1N-☐E3**
	AP48-T1☐H3	**DP48T1N-☐H3**
	AP48-T1☐M3	**DP48T1N-☐M3**
	AP48-T1☐H7	**DP48T1N-☐H3**
	AP48-T1☐E3C	None
	AP48-T1☐CE3	**DP48T1N-☐E3C**
2-split face, LED:	AP48-T2☐☐E3	**DP48T2N-☐☐E3**
	AP48-T2☐☐H3	**DP48T2N-☐☐H3**
	AP48-T2☐☐M3	**DP48T2N-☐☐M3**
	AP48-T2☐☐H7	**DP48T2N-☐☐H3**
	AP48-T2☐☐E3C	None
	AP48-T2☐☐CE3	**DP48T2N-☐☐E3C**
3-split face, LED:	AP48-T3☐☐☐E3	**DP48T3N-☐☐☐E3**
	AP48-T3☐☐☐H3	**DP48T3N-☐☐☐H3**
	AP48-T3☐☐☐M3	**DP48T3N-☐☐☐M3**
	AP48-T3☐☐☐H7	**DP48T3N-☐☐☐H3**
	AP48-T3☐☐☐E3C	None
	AP48-T3☐☐☐CE3	**DP48T3N-☐☐☐E3C**
Full face 2-color, LED:	AP48-T4RGE3	**DP48T4N-FE3**
Full face, incandescent:	AP48-T1☐E	**DP48T1N-☐E4**
	AP48-T1☐H	**DP48T1N-☐H4**
	AP48-T1☐M	**DP48T1N-☐M4**
	AP48-T1☐H6	None
2-split face, incandescent:	AP48-T2☐☐E	**DP48T2N-☐☐E4**
	AP48-T2☐☐H	**DP48T2N-☐☐H4**
	AP48-T2☐☐M	**DP48T2N-☐☐M4**
	AP48-T2☐☐H6	None
3-split face, incandescent:	AP48-T3☐☐☐E	**DP48T3N-☐☐☐E4**
	AP48-T3☐☐☐H	**DP48T3N-☐☐☐H4**
	AP48-T3☐☐☐M	**DP48T3N-☐☐☐M4**
	AP48-T3☐☐☐H6	None

■ Time of discontinuation: December 2005

Besides the above-mentioned models, all models including special products and parts in the products concerned will be discontinued.
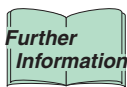
Further Information *Contact FUJI for details of substituting models.*

Terminal block
AYHN42B type

	Discontinued		Substitute
• **Terminal block section with tab/screw terminal**	AYHN42B-6	➡	None

■ Time of discontinuation: September 2005

AS-Interface
Accessories/Waterproof cap and gasket Pg11

	Discontinued		Substitute
• **Waterproof cap**	FX9C021	➡	**3RK1901-1KA00 ***
• **Gasket Pg11 for AS-i cable**	FX9P011		**3RX9805-0AA00 ***

* The substitutes are made by siemens, but can be supplied from FUJI.

■ Time of discontinuation: January 2005

⚠ Safety Considerations

- For safe operation, before using the product read the instruction manual or user manual that comes with the product carefully or consult the Fuji sales representative from which you purchased the product.
- Products introduced in this catalog have not been designed or manufactured for such applications in a system or equipment that will affect human bodies or lives.
- Customers, who want to use the products introduced in this catalog for special systems or devices such as for atomic-energy control, aerospace use, medical use, passenger vehicle, and traffic control, are requested to consult the Fuji sales division.
- Customers are requested to prepare safety measures when they apply the products introduced in this catalog to such systems or facilities that will affect human lives or cause severe damage to property if the products become faulty.
- For safe operation, wiring should be conducted only by qualified engineers who have sufficient technical knowledge about electrical work or wiring.

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