Fiber Optic Sensors: FX-500 Version 2 Dimensions

Automation Control Products

- PLC Controls
- HMI Panels
- Industrial Sensors
  - Area Sensors
  - Color Mark Sensors
  - Fiber Optic Sensors
    - FX-100
    - FX-300
    - FX-400
    - FX-500 Version 2
    - Tough Fibers
  - Laser Sensors
  - Measurement Sensors
  - Optical Touch Switches
  - Photoelectric Sensors
  - Pressure/Flow Sensors
  - Proximity Sensors
  - Safety Light Curtains
  - Semiconductor Sensors
  - Sensor Controllers
  - Special Usage Sensors
  - Static Ionizers
  - Video Borescopes
- Laser Markers
- Servos & Drives
- UV Curing Systems
- Machine Vision/ID Products
- Timers
- Limit Switches
- Temperature Controllers
- Counters
- Hour Meters
- Power Meters

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Overview | Part Numbers | Specifications | Dimensions

Dimensions/model drawings for this product appear below.

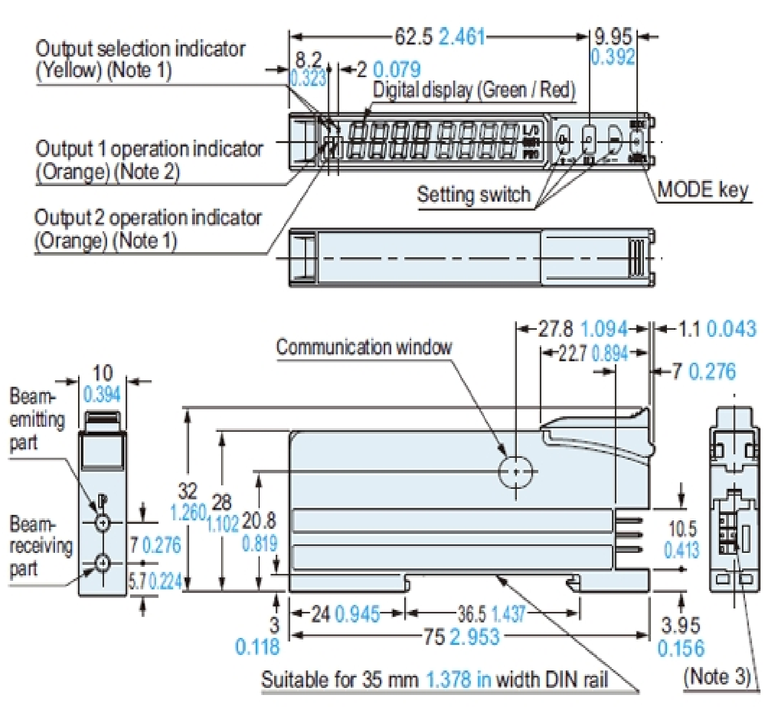
- Download FX-500 Version 2 product catalog in PDF format for more in-depth information
- CAD data is available for this product (results open in a new window):

FX-500 Version 2 CAD data

Units are usually notated in **millimeters (mm)**.
(For some products, additional measurements may also be provided - notated as inches (in) or inches (in)).

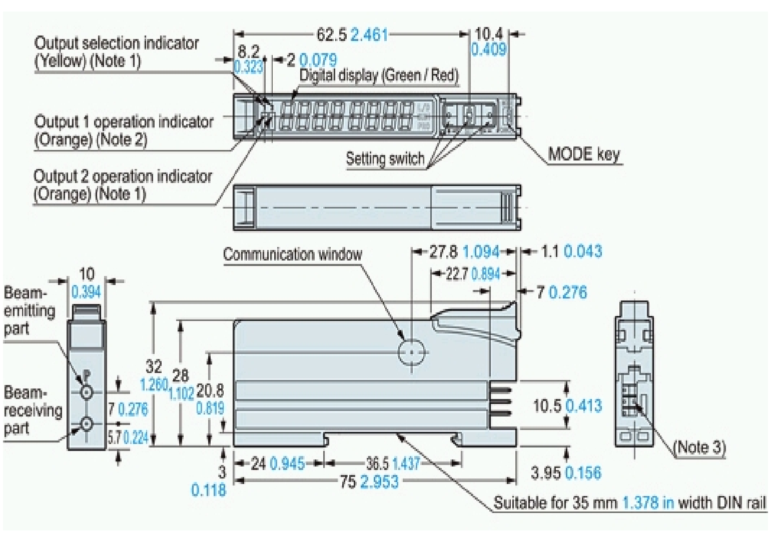
FX-501(P) FX-502(P)

Amplifier


Output selection indicator (Yellow) (Note 1)
8.2 0.323
2 0.079
62.5 2.461
9.95 0.392
Digital display (Green / Red)
Output 1 operation indicator (Orange) (Note 2)
Setting switch
MODE key
Output 2 operation indicator (Orange) (Note 1)
Communication window
27.8 1.094
22.7 0.894
1.1 0.043
7 0.276
10 0.394
Beam-emitting part
Beam-receiving part
32 1.260
28 1.102
20.8 0.819
7 0.276
5.7 0.224
10.5 0.413
3 0.118
24 0.945
36.5 1.437
75 2.953
3.95 0.156
Suitable for 35 mm 1.378 in width DIN rail
(Note 3)

Notes:
1) FX-502(P) only
2) FX-501(P): Operation indicator
3) FX-501(P): 3-pin, FX-502(P): 4-pin
* The shape of setting switch will be changed from production at November, 2011. Please see drawing below.

Before the modification


Output selection indicator (Yellow) (Note 1)
8.2 0.323
2 0.079
62.5 2.461
10.4 0.409
Digital display (Green / Red)
Output 1 operation indicator (Orange) (Note 2)
Setting switch
MODE key
Output 2 operation indicator (Orange) (Note 1)
Communication window
27.8 1.094
22.7 0.894
1.1 0.043
7 0.276
10 0.394
Beam-emitting part
Beam-receiving part
32 1.260
28 1.102
20.8 0.819
7 0.276
5.7 0.224
10.5 0.413
3 0.118
24 0.945
36.5 1.437
75 2.953
3.95 0.156
(Note 3)
Suitable for 35 mm 1.378 in width DIN rail

Notes:
1) FX-502(P) only
2) FX-501(P): Operation indicator
3) FX-501(P): 3-pin, FX-502(P): 4-pin

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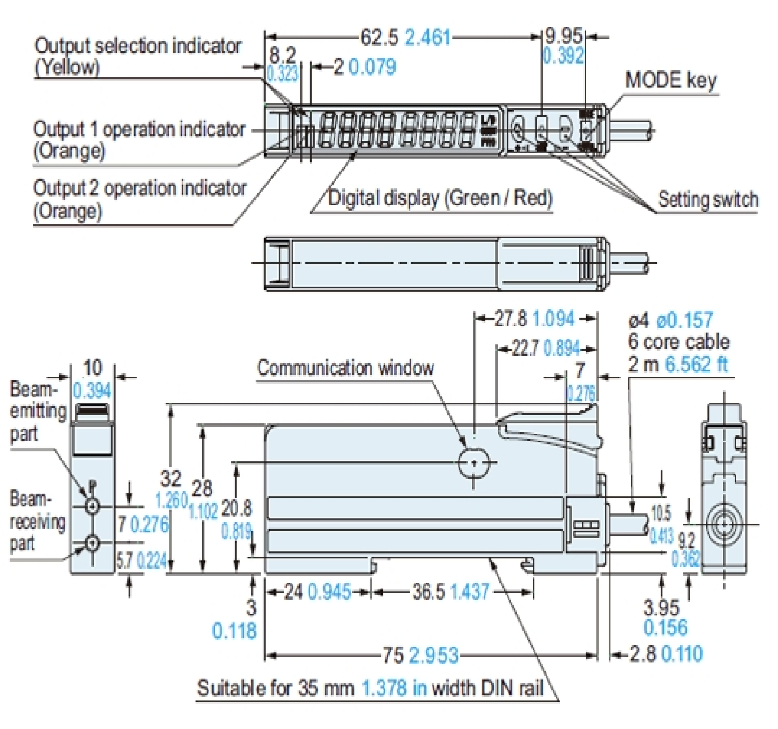
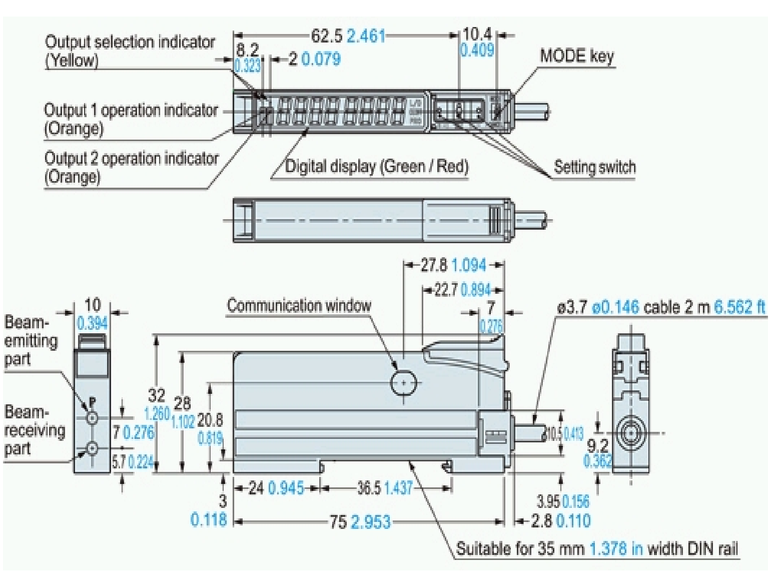
FX-505(P)-C2

Amplifier


Output selection indicator (Yellow)
8.2 0.323
2 0.079
62.5 2.461
9.95 0.392
MODE key
Output 1 operation indicator (Orange)
Output 2 operation indicator (Orange)
Digital display (Green / Red)
Setting switch
27.8 1.094
22.7 0.894
7 0.276
ø4 ø0.157 6 core cable 2 m 6.562 ft
Communication window
10 0.394
Beam-emitting part
Beam-receiving part
32 1.260
28 1.102
20.8 0.819
7 0.276
5.7 0.224
10.5 0.413
9.2 0.362
3 0.118
24 0.945
36.5 1.437
3.95 0.156
75 2.953
2.8 0.110
Suitable for 35 mm 1.378 in width DIN rail

Notes:
* The shape of setting switch and cable will be changed from production at November, 2011. Please see drawing below.

Before the modification


Output selection indicator (Yellow)
8.2 0.323
2 0.079
62.5 2.461
10.4 0.409
MODE key
Output 1 operation indicator (Orange)
Output 2 operation indicator (Orange)
Digital display (Green / Red)
Setting switch
Communication window
27.8 1.094
22.7 0.894
7 0.276
ø3.7 ø0.146 cable 2 m 6.562 ft
10 0.394
Beam-emitting part
Beam-receiving part
32 1.260
28 1.102
20.8 0.819
7 0.276
5.7 0.224
10.5 0.413
9.2 0.362
3 0.118
24 0.945
36.5 1.437
3.95 0.156
2.8 0.110
75 2.953
Suitable for 35 mm 1.378 in width DIN rail

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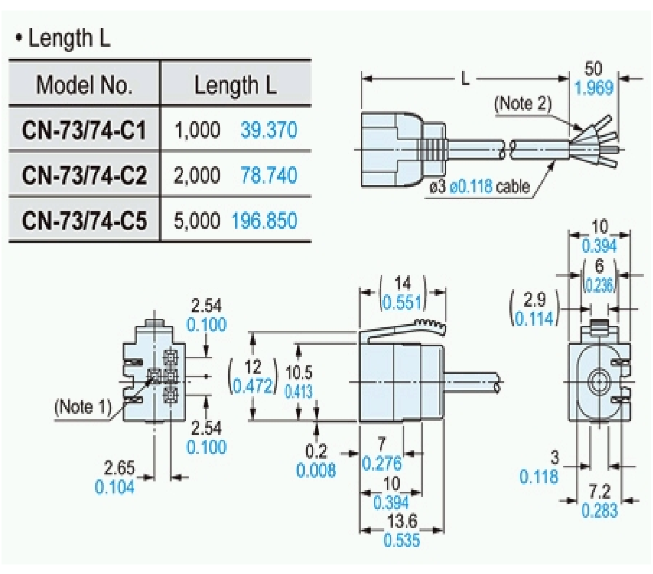
CN-73-C? CN-74-C?

Main cable (Optional)



• Length L

Model No.	Length L
CN-73/74-C1	1,000 39.370
CN-73/74-C2	2,000 78.740
CN-73/74-C5	5,000 196.850

L
50 1.969
(Note 2)
ø3 ø0.118 cable
2.54 0.100
12 0.472
10.5 0.413
(Note 1)
2.54 0.100
2.65 0.104
0.2 0.008
14 0.551
7 0.276
10 0.394
13.6 0.535
10 0.394
6 0.236
2.9 0.114
3 0.118
7.2 0.283

Notes:
1) CN-74-C? only
2) CN-73-C? : 3-core

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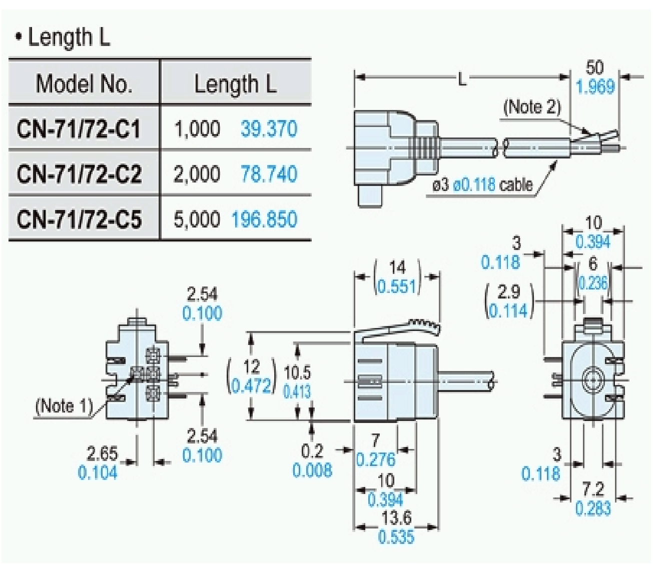
CN-71-C? CN-72-C?

Sub cable (Optional)



• Length L

Model No.	Length L
CN-71/72-C1	1,000 39.370
CN-71/72-C2	2,000 78.740
CN-71/72-C5	5,000 196.850

L
50 1.969
(Note 2)
ø3 ø0.118 cable
2.54 0.100
12 0.472
10.5 0.413
(Note 1)
2.54 0.100
2.65 0.104
0.2 0.008
14 0.551
7 0.276
10 0.394
13.6 0.535
10 0.394
3 0.118
6 0.236
2.9 0.114
3 0.118
7.2 0.283

Notes:
1) CN-72-C? only
2) CN-71-C? : 1-core

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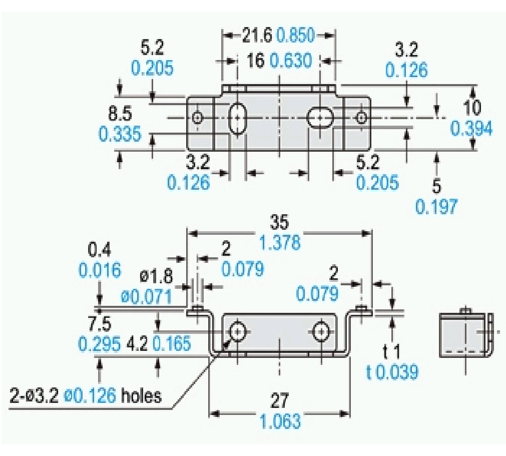
MS-DIN-2

Amplifier mounting bracket (Optional)


21.6 0.850
16 0.630
5.2 0.205
3.2 0.126
10 0.394
8.5 0.335
3.2 0.126
5.2 0.205
5 0.197
35 1.378
0.4 0.016
ø1.8 ø0.071
2 0.079
2 0.079
7.5 0.295
4.2 0.165
t 1 t 0.039
2-ø3.2 ø0.126 holes
27 1.063

Material: Cold rolled carbon steel (SPCC) (Uni-chrome plated)

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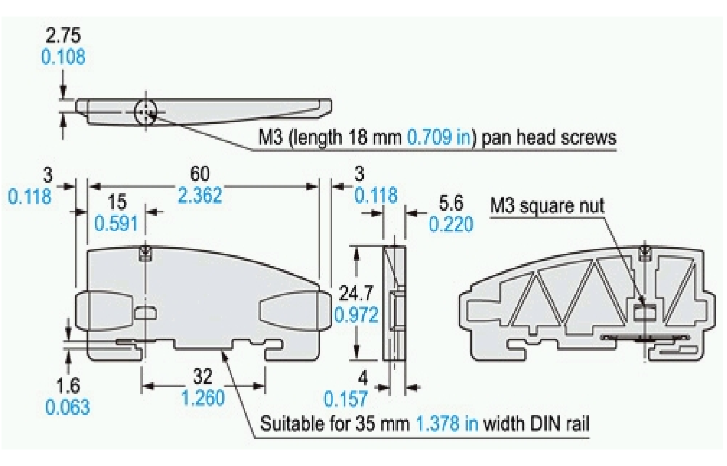
MS-DIN-E

End plate (Optional)


2.75 0.108
M3 (length 18 mm 0.709 in) pan head screws
3 0.118
60 2.362
15 0.591
3 0.118
5.6 0.220
M3 square nut
24.7 0.972
1.6 0.063
32 1.260
4 0.157
Suitable for 35 mm 1.378 in width DIN rail

Material: Polycarbonate

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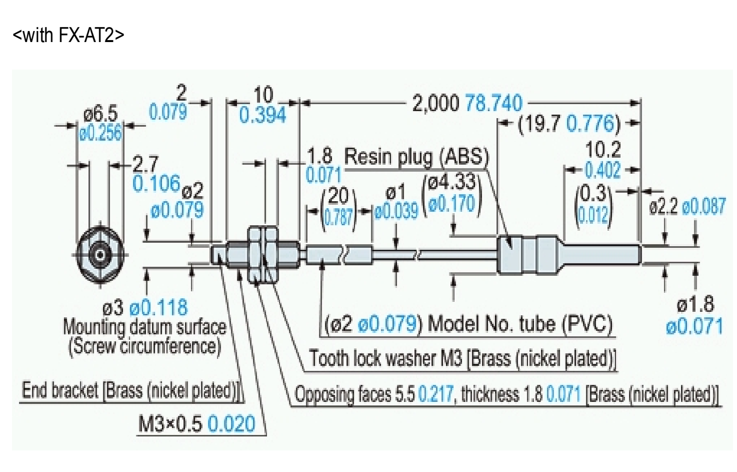
FT-30

Super quality fibers・Thru-beam type

<with FX-AT2>


ø6.5 ø0.256
2 0.079
10 0.394
2.7 0.106
ø2 ø0.079
1.8 0.071
2,000 78.740
Resin plug (ABS)
20 0.787
ø1 ø0.039
(ø4.33 ø0.170)
(19.7 0.776)
10.2 0.402
(0.3 0.012)
ø2.2 ø0.087
ø1.8 ø0.071
ø3 ø0.118
Mounting datum surface (Screw circumference)
End bracket [Brass (nickel plated)]
M3×0.5 0.020
(ø2 ø0.079) Model No. tube (PVC)
Tooth lock washer M3 [Brass (nickel plated)]
Opposing faces 5.5 0.217, thickness 1.8 0.071 [Brass (nickel plated)]

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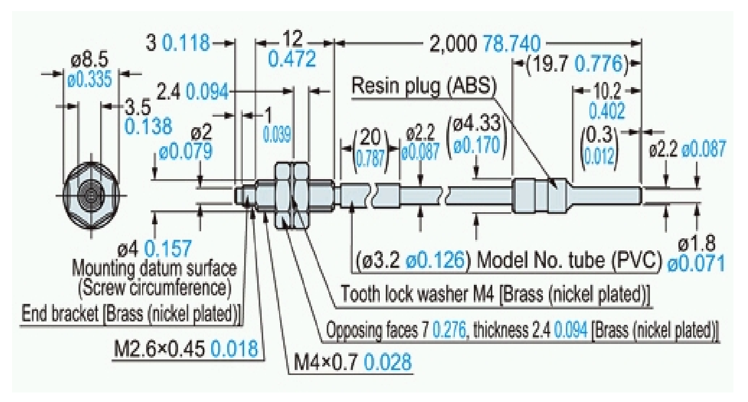
FT-40

Super quality fibers・Thru-beam type

<with FX-AT2>


ø8.5 ø0.335
3 0.118
12 0.472
2.4 0.094
3.5 0.138
1 0.039
ø2 ø0.079
2,000 78.740
Resin plug (ABS)
20 0.787
ø2.2 ø0.087
(ø4.33 ø0.170)
(19.7 0.776)
10.2 0.402
(0.3 0.012)
ø2.2 ø0.087
ø1.8 ø0.071
ø4 0.157
Mounting datum surface (Screw circumference)
End bracket [Brass (nickel plated)]
M2.6×0.45 0.018
M4×0.7 0.028
(ø3.2 ø0.126) Model No. tube (PVC)
Tooth lock washer M4 [Brass (nickel plated)]
Opposing faces 7 0.276, thickness 2.4 0.094 [Brass (nickel plated)]

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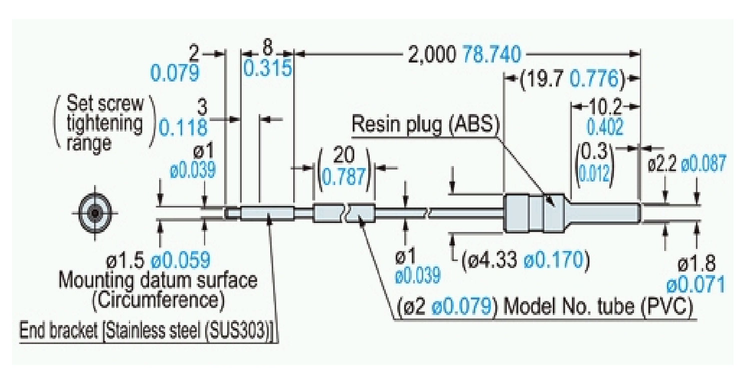
FT-S20

Super quality fibers・Thru-beam type

<with FX-AT2>


2 0.079
8 0.315
2,000 78.740
Set screw tightening range
3 0.118
Resin plug (ABS)
ø1 ø0.039
20 0.787
(19.7 0.776)
10.2 0.402
(0.3 0.012)
ø2.2 ø0.087
ø1.5 ø0.059
Mounting datum surface (Circumference)
End bracket [Stainless steel (SUS303)]
ø1 ø0.039
(ø4.33 ø0.170)
ø1.8 ø0.071
(ø2 ø0.079) Model No. tube (PVC)

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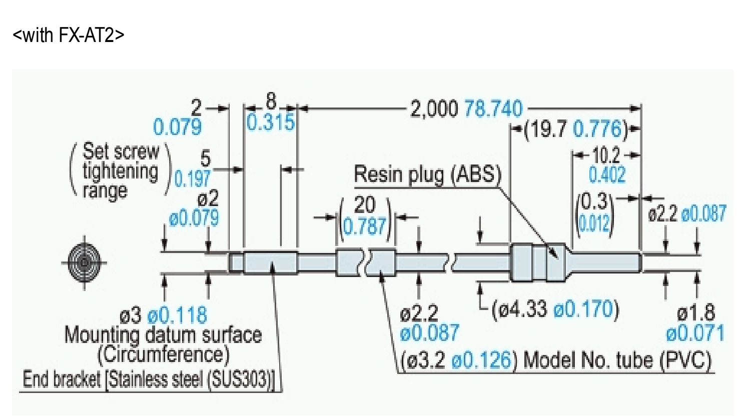
FT-S30

Super quality fibers・Thru-beam type

<with FX-AT2>


2 0.079
8 0.315
2,000 78.740
Set screw tightening range
5 0.197
ø2 ø0.079
Resin plug (ABS)
20 0.787
(19.7 0.776)
10.2 0.402
(0.3 0.012)
ø2.2 ø0.087
ø3 ø0.118
Mounting datum surface (Circumference)
End bracket [Stainless steel (SUS303)]
ø2.2 ø0.087
(ø4.33 ø0.170)
ø1.8 ø0.071
(ø3.2 ø0.126) Model No. tube (PVC)

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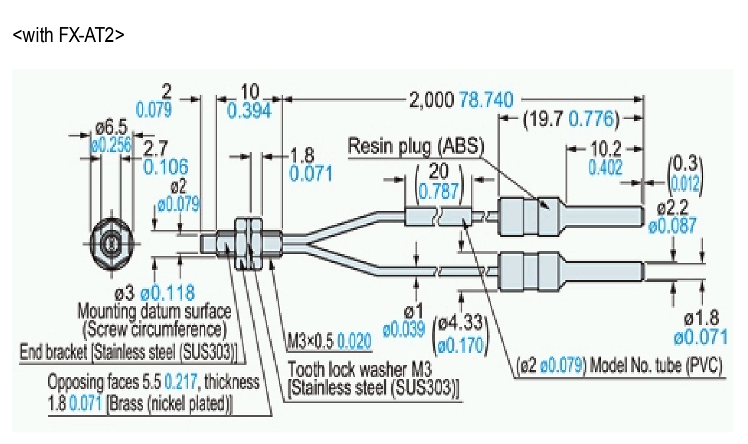
FD-30

Super quality fibers・Reflective type

<with FX-AT2>


ø6.5 ø0.256
2 0.079
10 0.394
2.7 0.106
ø2 ø0.079
1.8 0.071
2,000 78.740
Resin plug (ABS)
20 0.787
(19.7 0.776)
10.2 0.402
(0.3 0.012)
ø2.2 ø0.087
ø3 ø0.118
Mounting datum surface (Screw circumference)
End bracket [Stainless steel (SUS303)]
M3×0.5 0.020
ø1 ø0.039
(ø4.33 ø0.170)
ø1.8 ø0.071
Opposing faces 5.5 0.217, thickness 1.8 0.071 [Brass (nickel plated)]
Tooth lock washer M3 [Stainless steel (SUS303)]
(ø2 ø0.079) Model No. tube (PVC)

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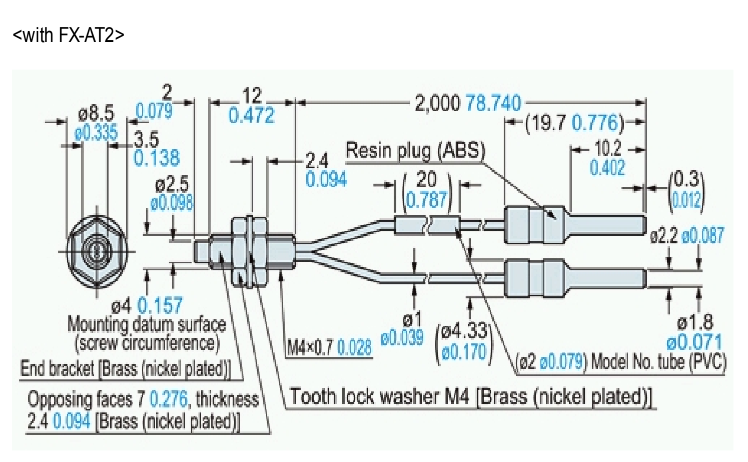
FD-40

Super quality fibers・Reflective type

<with FX-AT2>


ø8.5 ø0.335
2 0.079
12 0.472
3.5 0.138
ø2.5 ø0.098
2.4 0.094
2,000 78.740
Resin plug (ABS)
20 0.787
(19.7 0.776)
10.2 0.402
(0.3 0.012)
ø2.2 ø0.087
ø4 ø0.157
Mounting datum surface (screw circumference)
End bracket [Brass (nickel plated)]
M4×0.7 0.028
ø1 ø0.039
(ø4.33 ø0.170)
ø1.8 ø0.071
Opposing faces 7 0.276, thickness 2.4 0.094 [Brass (nickel plated)]
Tooth lock washer M4 [Brass (nickel plated)]
(ø2 ø0.079) Model No. tube (PVC)

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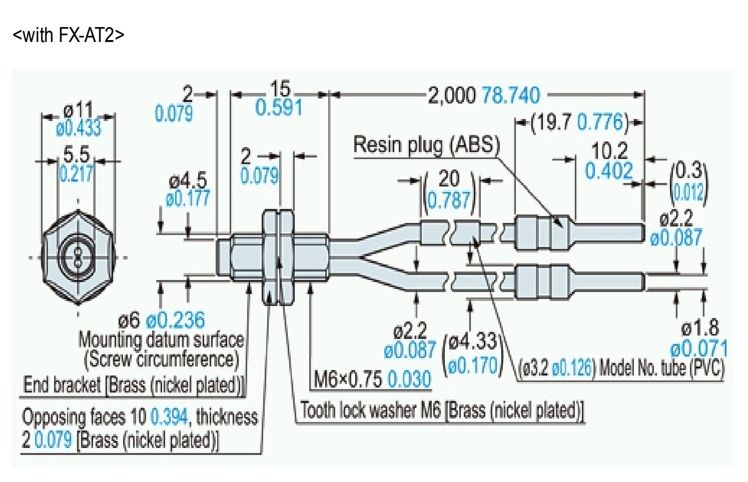
FD-60

Super quality fibers・Reflective type

<with FX-AT2>


ø11 ø0.433
2 0.079
15 0.591
5.5 0.217
ø4.5 ø0.177
2 0.079
2,000 78.740
Resin plug (ABS)
20 0.787
(19.7 0.776)
10.2 0.402
(0.3 0.012)
ø2.2 ø0.087
ø6 ø0.236
Mounting datum surface (Screw circumference)
End bracket [Brass (nickel plated)]
M6×0.75 0.030
ø2.2 ø0.087
(ø4.33 ø0.170)
ø1.8 ø0.071
Opposing faces 10 0.394, thickness 2 0.079 [Brass (nickel plated)]
Tooth lock washer M6 [Brass (nickel plated)]
(ø3.2 ø0.126) Model No. tube (PVC)

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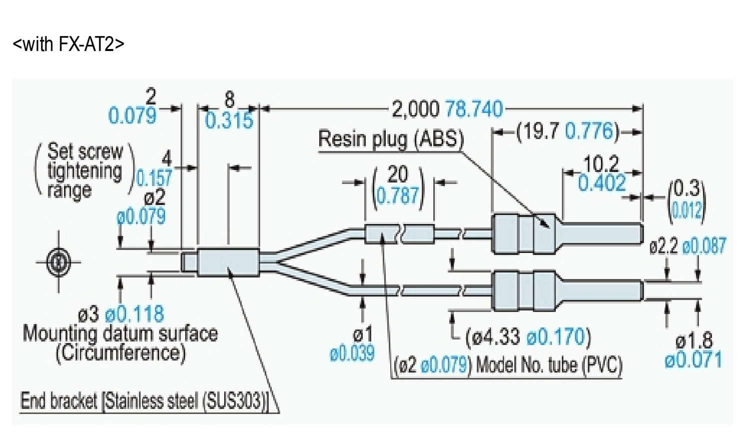
FD-S30

Super quality fibers・Reflective type

<with FX-AT2>


2 0.079
8 0.315
2,000 78.740
Set screw tightening range
4 0.157
ø2 ø0.079
Resin plug (ABS)
20 0.787
(19.7 0.776)
10.2 0.402
(0.3 0.012)
ø2.2 ø0.087
ø3 ø0.118
Mounting datum surface (Circumference)
End bracket [Stainless steel (SUS303)]
ø1 ø0.039
(ø4.33 ø0.170)
ø1.8 ø0.071
(ø2 ø0.079) Model No. tube (PVC)

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