

# Screwless Interface Terminal Block



## AFL Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

### Features

- Screwless push-in type connection for simple and easy connection
- Slim and compact design with 5mm terminal pitch
- Ideal for connector type PLCs and dedicated controller I/O
- DIN rail mount and screw mount methods

### Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

**AFL - H ① ② - ③ ④**

#### ① The number of connector pin

20: 20-pin  
26: 26-pin  
40: 40-pin  
50: 50-pin

#### ② Connector

No-mark: HIF3BA, XG4A-2031, XG4A-2631  
B: HIF3BB

#### ③ Indicator

No-mark: no LED  
L: LED equipped

#### ④ Input logic

No-mark: None  
N: NPN  
P: PNP

### Product Components

- Product
- Instruction manual

### Specifications

Model	AFL-H20	AFL-H26	AFL-H40	AFL-H50	AFL-H50B
The number of connector pin	20	26	40	50	50
The number of terminal	20	26	40	50	50
Terminal type	Screwless	Screwless	Screwless	Screwless	Screwless
Terminal pitch	5.0mm	5.0mm	5.0mm	5.0mm	5.0mm
Connector for controller side	20-pin Omron (XG4A-2031)	26-pin Omron (XG4A-2631)	40-pin Hirose (HIF3BA-40PA-54DSA)	50-pin Hirose (HIF3BA-50PA-2.54DSA)	50-pin Hirose (HIF3BB-50PA-2.54DSA)
Material	Case, Base: PC				
Approval	CE  ENEC		CE  ENEC	CE  ENEC	CE  ENEC
Unit weight (packaged)	≈ 48.5 g (≈ 86.2 g)	≈ 60 g (≈ 89 g)	≈ 89 g (≈ 156 g)	≈ 110 g (≈ 177 g)	≈ 110 g (≈ 177 g)
Model	AFL-H20-LN, AFL-H20-LP		AFL-H40-LN, AFL-H40-LP		
The number of connector pin	20		40		
The number of terminal	16 <sup>01)</sup>		32 <sup>02)</sup>		
Terminal type	Screwless		Screwless		
Terminal pitch	5.0mm		5.0mm		
Connector for controller side	20-pin Omron (XG4A-2031)		40-pin Hirose (HIF3BA-40PA-2.54DSA)		
Input logic	NPN / PNP model				
Indicator	Power indicator: red, operation indicator: blue				
Material	Case, Base: PC				
Approval	CE  ENEC		CE  ENEC		
Unit weight (packaged)	≈ 48.6 g (≈ 86.3 g)		≈ 91 g (≈ 158 g)		

01) Four terminals among twenty terminals are used for LED power.

02) Eight terminals among forty terminals are used for LED power or N.C (Not Connected) terminals.

Rated voltage <sup>01)</sup>	Basic model: ≤ 125 VDC≒, 125 VAC~ 50/60 Hz Indicator equipped model: ≤ 24 VDC≒ ± 10%
Rated current	≤ 1 A
Insulation resistance	≥ 1,000 MΩ (500 VDC≒ megger)
Dielectric strength	2,700 VAC ~ 50/60 Hz for 1 minute
Vibration	0.75 mm amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 2 hours
Vibration (malfunction)	0.75 mm amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 10 minutes
Shock	150 m/s <sup>2</sup> (≈ 15 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	100 m/s <sup>2</sup> (≈ 10 G) in each X, Y, Z direction for 3 times
Ambient temperature	-15 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)
Protection structure	IP20 (IEC standard)

01) When connecting loads to output part, connect loads of same power type. Connecting loads of different power type may cause safety issues.

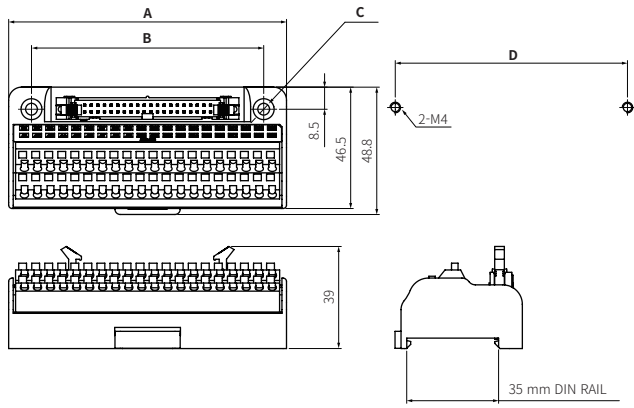
Applicable wire - solid <sup>01)</sup>	Ø 0.6 to 1.25 mm
Applicable wire - stranded <sup>01) 02)</sup>	AWG 22-18 (0.30 to 0.80 mm <sup>2</sup> )
Wire ferrule connection tensile strength	≥ 30 N
Stripped length	8 to 10 mm

01) Use the cable of copper conductor in 60 °C temperature class.

02) When using the stranded wire, use End Sleeve (wire ferrule).

## Dimensions

- Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.



	A	B	C	D
<b>20-pin</b>	57.5	53	2-Ø4.2	53
<b>26-pin</b>	72.5	64	2-Ø4.2	64
<b>40-pin</b>	106.5	89	2-Ø4.5	89
<b>50-pin</b>	131.5	102	2-Ø4.5	102

## Sold Separately

- I/O cable