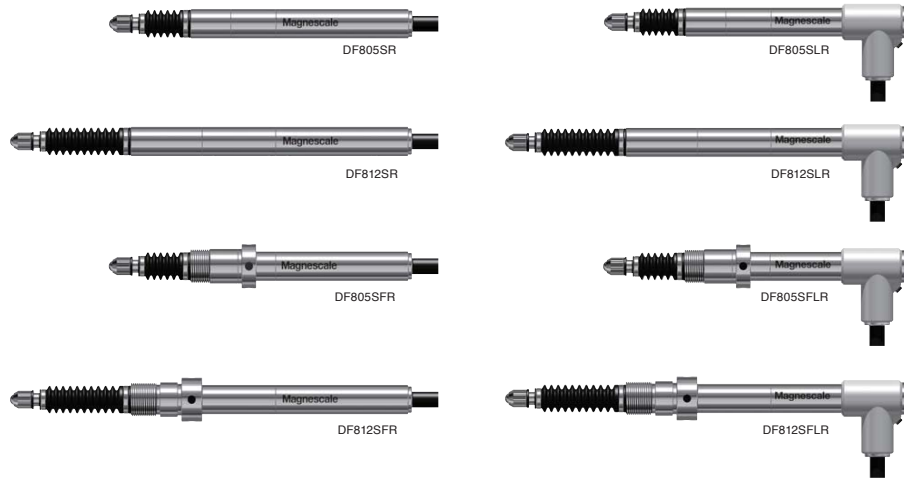


Digital Gauge DF805S/DF812S Series

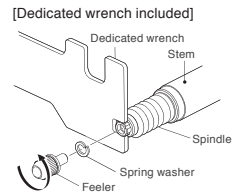


DF805S□□R
DF812S□□R

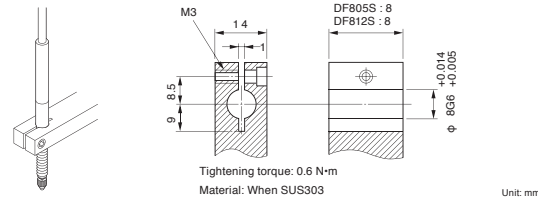
No letters: Straight
L: Right angle
F: Flange
FL: Flange & Right angle
S: Ball spline
05: measurement range 5 mm
12: measurement range 12 mm

DF800S mounting method and features <standard ø8 mounting>

Attaching/removing feeler

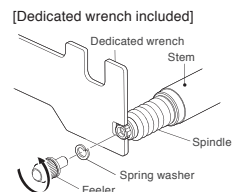


Recommended mounting holder dimensions

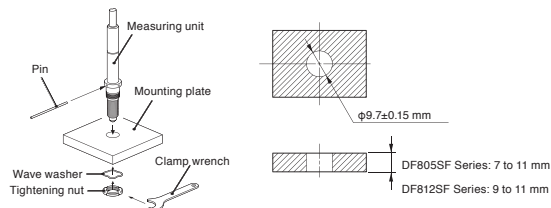


DF800SF mounting method and features <Easy mounting possible without applying excessive force to the bearing>

Attaching/removing feeler



Recommended mounting holder dimensions

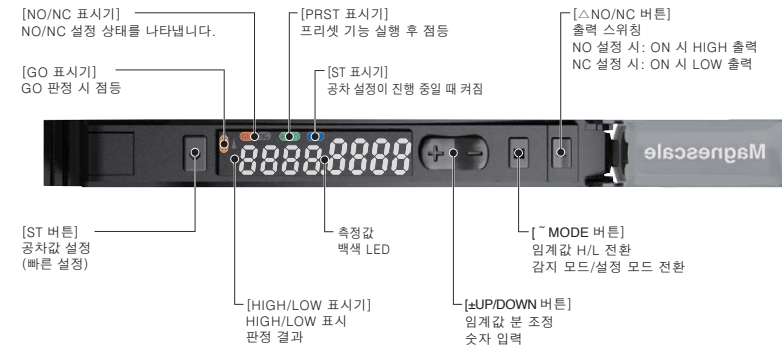


Digital Tolerance Indicator MF10 Series

<커버 닫힘>



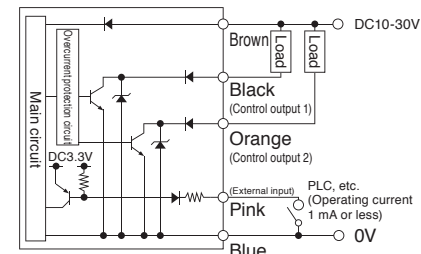
<Cover open>



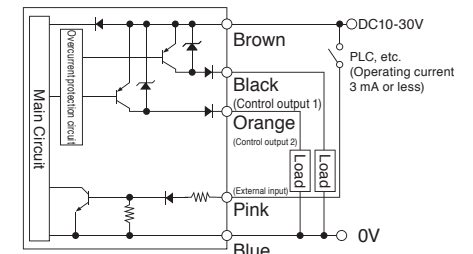
MF10-P1 Current sink (NPN)
MF10-P2 Current source (PNP)

MF10 series Input/Output Circuit Diagram

MF10-P1 (NPN type)



MF10-P2 (PNP type)



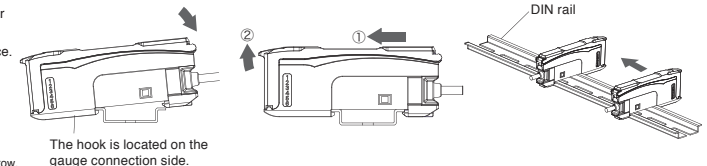
■ Mounting on DIN rail

- Let the hook on the underside of the indicator catch the DIN rail track.
- Push in the unit until the hook clicks into place.

■ Removing from DIN rail

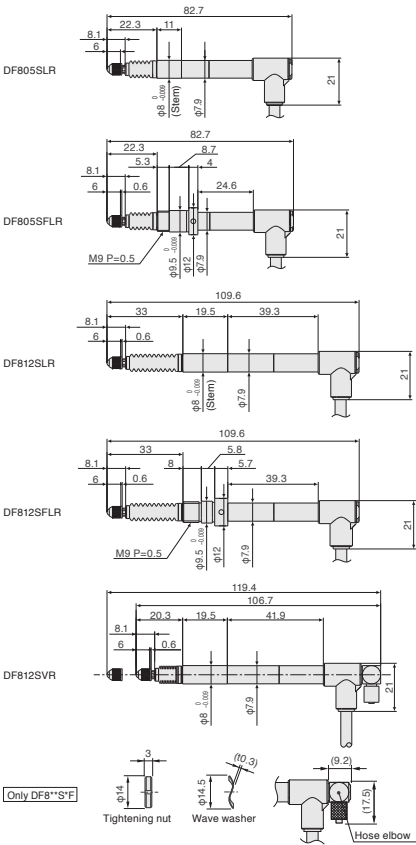
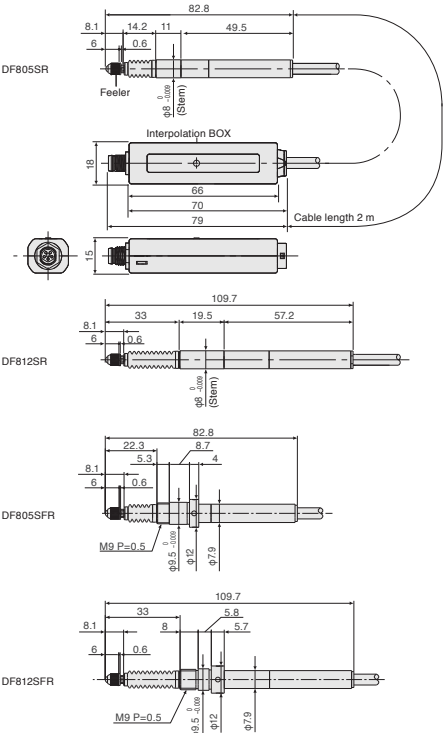
- Push the unit in the direction of arrow 1.
- Lift the unit in the direction of arrow 2 while performing step ①.

*Up to 30 digital tolerance indicators can be installed in a row.



Digital Gauge
DF805/DF812 Series

Main Specifications									
Model name	DF805SR	DF805SFR	DF805SLR	DF805SFLR	DF812SR	DF812SFR	DF812SLR	DF812SFLR	DF812SVR
Measuring range	5mm				12mm				
Resolution					0.1μm				
Accuracy (at 20°C/68°F)					1μm				
Measuring force (at 20°C/68°F)	Upward : 0.35±0.25N Horizontal : 0.40±0.25N Downward : 0.45±0.25N				Upward : 0.4±0.3N Horizontal : 0.5±0.3N Downward : 0.6±0.3N			Upward : 0.6±0.5N Horizontal : 0.7±0.5N Downward : 0.8±0.5N Air pressure : 0.055MPa	
Maximum response speed	80m/min								
Reference point	at 1±0.5 mm position of spindle movement								
Reference point response speed	80m/min								
Output	Dedicated serial communication protocol								
Spindle driving	Spring push							Pneumatic push	
Achieved number of strokes	60 million strokes (under specific test conditions defined by Magnescale Co., Ltd.)								
Protective structure	IP66/IP67	IP54 When a ø4 mm tube is connected : IP67			IP66/IP67	IP54 When a ø4 mm tube is connected : IP67			IP66/IP67
Impact resistance	1000m/s ² (11ms)								
Vibration resistance	100m/s ² (20-2000HZ)								
Operating temperature	0-55°C								
Storage temperature	-20-60°C								
Power supply voltage	+10 to +30V DC including ripple (p-p) 10%								
Power consumption	1.2 W or less								
Mass	Approx. 30 g (not including cable parts and interpolation box)								
Probe part cable length	2m								
Output cable length	Max. 20 m (Use the optional CE34.)								
Feeler	Provided with a carbide ball tip Mount screw M2.5								
Accessories	Instruction Manual, 1 wrench, 1 hose elbow (only DF8**"S"*) Tightening nut, clamp wrench, wave washer, stop pin (1 each) (only DF8**"S"*)								

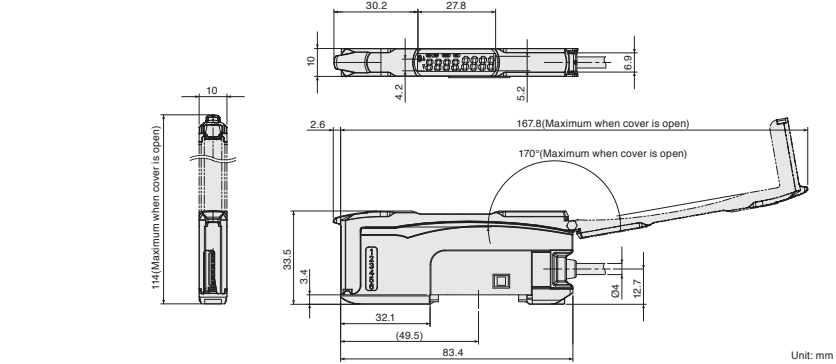


Digital Tolerance Indicator
MF10 Series

Main Specifications		
Model name	MF10-P1	MF10-P2
Type	I/O circuit	NPN output (current sink) PNP output (current source)
I/O	Number of Go/NoGo judgment outputs	2
	Number of external inputs ^{*4}	1
Minimum display unit	0.1μm	
Power supply voltage	+10 to +30V DC including ripple (p-p) 10%	
Power consumption ^{*1}	Power supply voltage 24 V normal mode: 2040 mW or less (Power consumption 85 mA or less) Power-saving ECO mode: 1920 mW or less (Current consumption 80 mA or less)	
Go/NoGo judgment output ^{*2}	Load voltage: DC 30 V or less, open collector output type Load current: the total of the two outputs must be 100 mA or less Residual voltage and load current less than 10 mA: 1 V or less Load current 10 mA to 100 mA: 2 V or less Off-state current: 0.1 mA or less	
Protection circuit	Power supply reverse connection protection, output short-circuit protection and output reverse connection protection	
Number of banks	4 (Can be set 4 kinds of judgment value)	
Ambient temperature range ^{*3}	Operating: When lining up 1 or 2 digital tolerance indicators: 0°C to +55°C Storage: -10°C to +60°C (with no icing or condensation)	
Ambient humidity range	Operating and storage: 35% to 85% RH (with no condensation)	
Mass (main unit)	Approx. 75 g	
Cable length	2m	

*1. At a power supply voltage of 10 to 30 V, Normal mode: 2250 mW or less (power supply voltage 30 V: power consumption 75 mA or less / power supply voltage 10 V: power consumption 155 mA or less), power-saving ECO mode: 2100 mW or less (power supply voltage 30 V: power consumption 70 mA or less / power supply voltage 10 V: power consumption 135 mA or less) *2. When lining up 4 or more digital tolerance indicators, the 2 output total is 20 mA or less. *3 When used in a row, the operating ambient temperature range is 0°C to +50°C for 3 to 10 units, 0°C to +45°C for 11 to 16 units, and 0°C to +40°C for 17 to 30 units. *4. The input details are as follows.

	Contact input (relay or switch)	Non-contact input (transistor)	Input time
NPN Type	ON: Connection to 0 V (Outflow current: 1 mA or less) OFF: Open or short-circuited to Vcc	ON: 1.5 V or less (Outflow current: 1 mA or less) OFF: Vcc-1.5V to Vcc (Leakage current: 0.1 mA or less)	ON: 9ms or more OFF: 9ms or more
PNP Type	ON: Connection to Vcc (Sink current: 3 mA or less) OFF: Open or short-circuited to 0V	ON: Vcc-1.5V to Vcc (Sink current: 3 mA or less) OFF: 1.5V or less (Leakage current: 0.1 mA or less)	



Cable
CE34-

Main Specifications						
Model Name	CE34-005	CE34-02	CE34-05	CE34-10	CE34-15	CE34-20
Cable length	0.5m	2.0m	5.0m	10m	15m	20m

