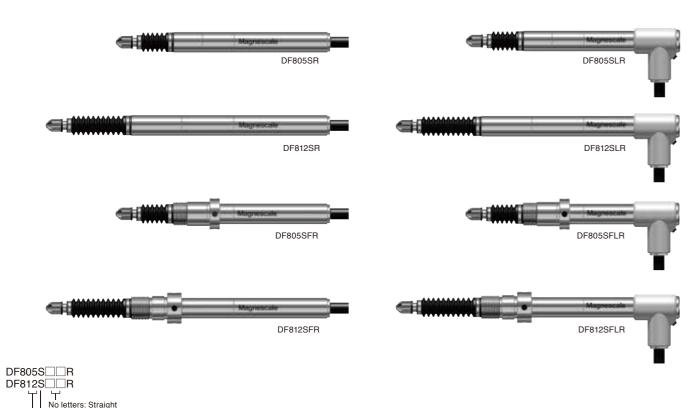
Digital Gauge DF805S/DF812S Series



DF800S mounting method and features <standard Ø8 mounting>

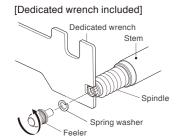
Attaching/removing feeler

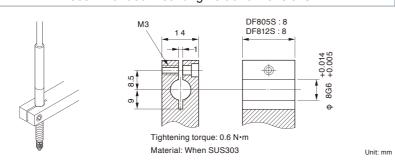
L: Right angle F: Flange FL: Flange & Right angle

S: Ball spline

05: measurement range 5 mm 12: measurement range 12 mm

Recommended mounting holder dimensions



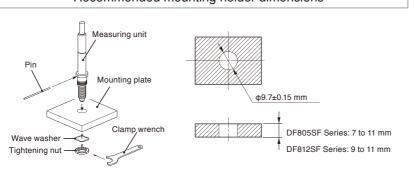


DF800SF mounting method and features < Easy mounting possible without applying excessive force to the bearing>

Attaching/removing feeler

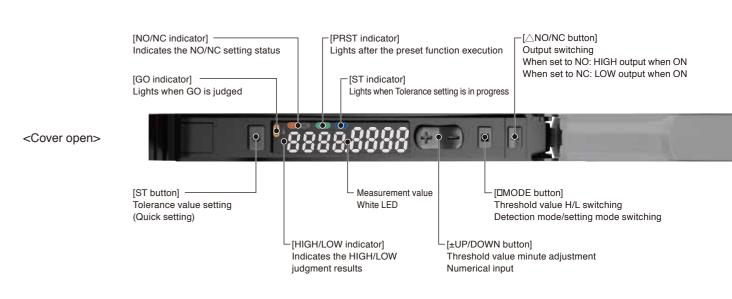
Recommended mounting holder dimensions

[Dedicated wrench included]



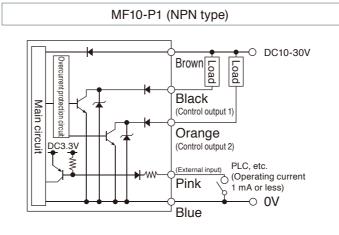
Digital Tolerance Indicator MF10 Series

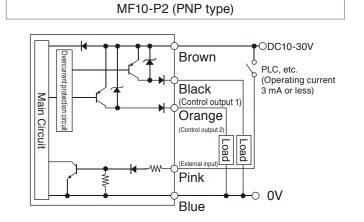




MF10-P1 Current sink (NPN) MF10-P2 Current source (PNP)

MF10 series Input/Output Circuit Diagram

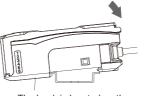


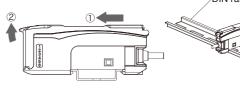


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- Mounting on DIN rail
- ① Let the hook on the underside of the indicator catch the DIN rail track.
- 2 Push in the unit until the hook clicks into place
- Removing from DIN rail
- 1) Push the unit in the direction of arrow 1. ② Lift the unit in the direction of arrow 2
- while performing step 1.

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



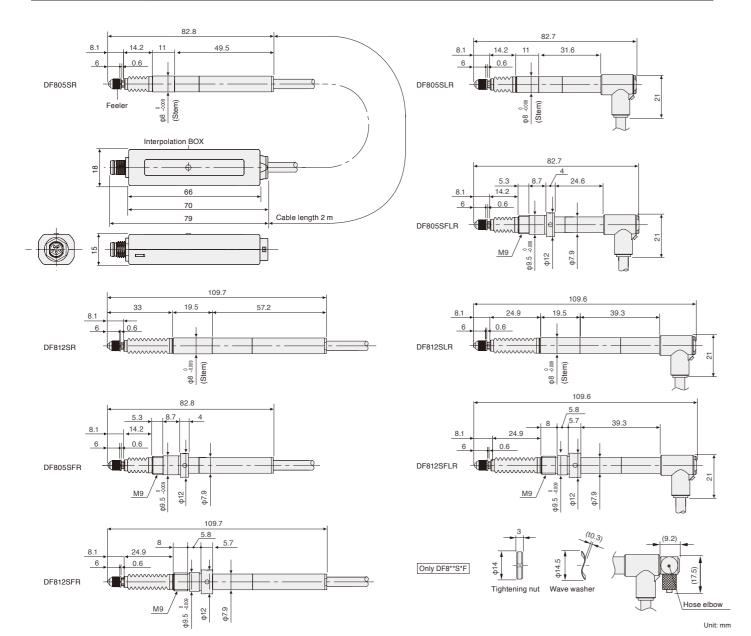


The hook is located on the gauge connection side.

Digital Gauge

DF805/DF812 Series

Main Specifications								
Model name	DF805SR	DF805SFR	DF805SLR	DF805SFLR	DF812SR	DF812SFR	DF812SLR	DF812SFLR
Measuring range		5mm 12mm			mm			
Resolution	0.1µm							
Accuracy (at 20°C/68°F)				1μ	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			
Maximum response speed				80m	n/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							
Achieved number of strokes	60 million strokes (under specific test conditions defined by Magnescale Co., Ltd.)							
Protective structure	IP	66	IP54 When a ø4 mm tube is connected : IP67		IP54 When a ø4 mm tube is connected : IP67			
Impact resistance	100m/s² (20-2000Hz)							
Vibration resistance	1000m/s²(11ms)							
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*L**) Tightening nut, clamp wrench, wave washer, stop pin (1 each) (only DF8**S*F**)							



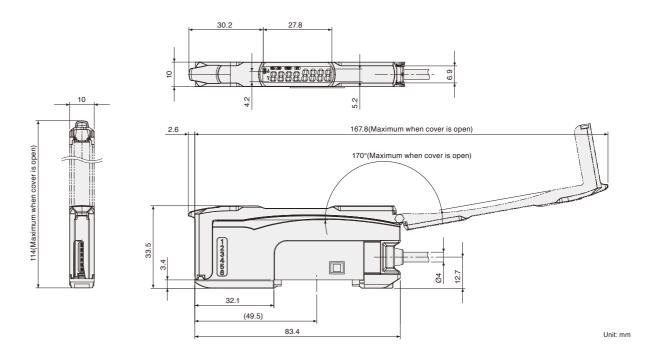
Digital Tolerance Indicator

MF10 Series

Main	Specifications					
Model	name	MF10-P1	MF10-P2			
Туре	I/O circuit	NPN output (current sink)	PNP output (current source)			
1/0	Number of Go/NoGo judgment outputs	2	2			
1/0	Number of external inputs*4	1				
Minimum display unit 0.1µm		μт				
Power supply voltage +10 to +30V DC including ripple (p-p) 10%			ding 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/No	Go judgment output* ²	Load current: the total of the two				
Protec	tion circuit	Power supply reverse connection protection, output short-	circuit protection and output reverse connection protection			
Numbe	mber of banks 4 (Can be set 4 kinds of judgment value)					
			g up 1 or 2 digital tolerance indicators: 0°C to +55°C C to +60°C (with no icing or condensation)			
Ambie	nt humidity range	Operating and storage: 35% to 85% RH (with no condensation)				
Mass (main unit)	Approx. 75 g				
Cable	ble length 2m					

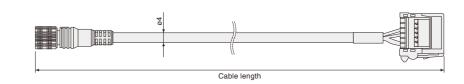
1. At a power supply voltage of 10 to 30 V, Normal mode: 2250 mW or less (power supply voltage 30 V: power consumption 75 mA or less / power supply voltage 10 V: power consumption 155 mA or less), power-saving ECO mode: 2100 mW or less (power supply voltage 30 V: power consumption 70 mA or less / power supply voltage 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



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