Digital gauge DF805S / DF812S series Main

Main specification								
Model name	DF805SR	DF805SFR	DF805SLR	DF805SFLR	DF812SR	DF812SFR	DF812SLR	DF812SFLR
Measuring range	5mm			12mm				
Resolution		0.1µm						
Accuracy (at 20°C)	1µm							
Protective structure	IP66 When a \$4mm tube is connected: IP67 IP66 When a \$4mm tube is connected: IP				e is connected: IP67			

Connection cable CE34 series (CE34 cable is necessary when connecting DF805S/812S series to MF10 series)

Main specification						
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

Digital Gauge DT series

Main specification								
Model name	Standard model	Protected type model	Standard model	Protected type model	Standard model		Protected type model	
Wodername	DT512N	DT512P	DT12N	DT12P	DT32N	DT32NV	DT32P	DT32PV
Measuring range	12mm			32 mm				
Resolution	1µm 5µm							
Accuracy (at 20°C)	6µ	6μm 10μm						
Protective structure	- IP64 or equivalent		-	IP64 or equivalent		-	IP64 or e	quivalent

Interpolator for DT series MT20 series (MT20 interpolator is necessary when connecting DT series to MF10 series)

Main specification				
Model name	MT20-01 (For DT512 series)	MT20-05 (For DT12/32 series)		
Resolution	Resolution 1µm	Resolution 5 μ m		

Digital tolerance indicator / Counter module MF10 series

Main specification					
Madal name	Digital tolera	Counter module			
Model name	MF10-P1	MF10-P2	MF10-CM		
Function	NPN output (current sink)	PNP output (current source)	Counter module for MG50		
I/O	Number of Go/No Go judgement output 2, Number of external inputs 1				
Minimum display unit	0.1µm				
Cable length	input/output, p	-			
Mounting method	35mm DIN rail mounting				
Power supply voltage	+10-30V DC including ripple (p-p) 10%				
Power consumption / Consumption current	2.1W or less / 85A or less				
Mass	75g				

Interface unit MG50 series

Main specification					
Madalasana	Main r	Distribution module			
Model name	MG50-EC MG50-CL		MG51		
Commnication protocol	EtherCAT	CC-Link	Data transferred to main moduble by dedicated protoco		
Baud rate	100Mbps	Maximum downlink speed of 10 Mbps	-		
Node address setting method	Set with decimal rotary switches or software Set with decimal rotary switches		-		
Node address range	000-192 Max. 64		-		
Maximum connectable counter modules	30 16		10		
Maximum connectable distribution modules	8 -				
Maximum cable length	Maximum cable length between main module and distribution module: 30m				
Mounting method	35mm DIN rail mounting				
Power supply voltage	DC24V (20.4-26.4V)				
Power consumption / Consumption current / Current consumption	2.4 W or less	2W or less 80 mA or less			

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NEW gauging system

MG51

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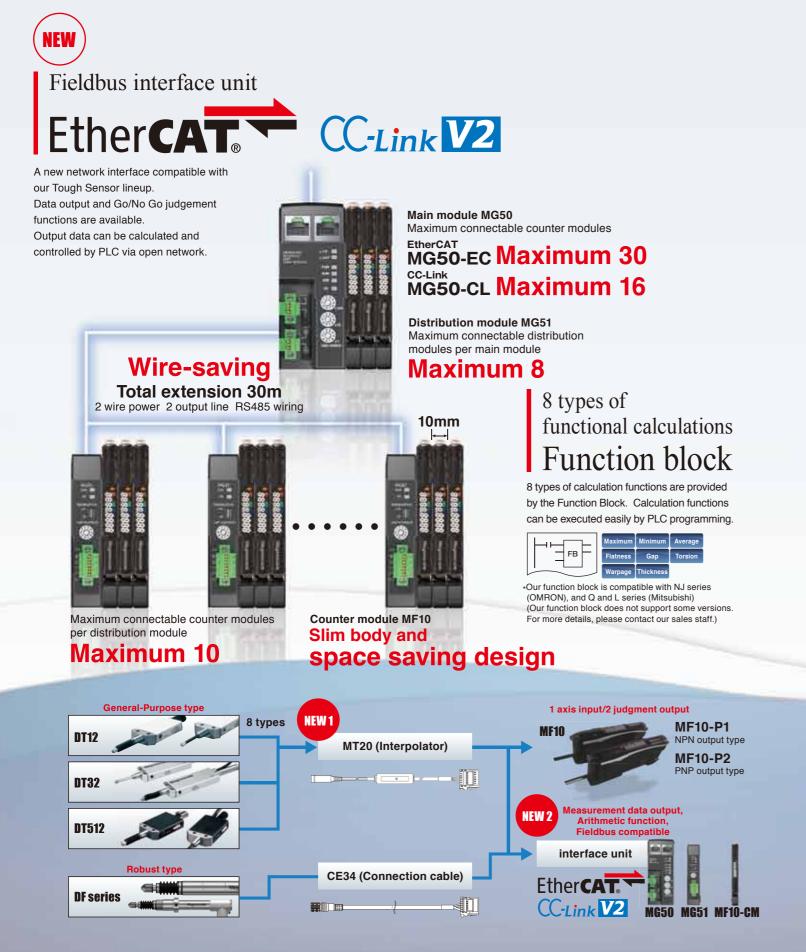
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SPEED X PRECISION



[Speed] × [High Rigidity]



High resistance to shock and vibration Ball spline structure

The new ball spline construction provides approximately 5 times the radial load resistance and zero rotational backlash compared to the previous model which utilized a ball-point contact structure.

Line contact structure



Structurally I ction is unavoi

Ball spline structure <DF800S>

Stroke bush type corevisous type>

Ball-point structu

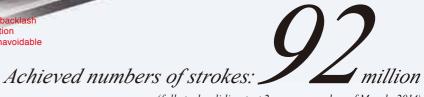
Resistant to the effects of water and condensation IP67 *1

Magnescale employes a magnetic detection principle that is resistant to the effects of oil, water and condensation. This principle allows for the achievement of high positioning accuracy even in severe environments. The spindle can be driven by air easily with the right angle type using the provided hose connection. This adhesion structure has successfully completed a 72 hour underwater stroke test which exceeds an IP67 rating.

DF800S Series Slim & Compact

Compact ϕ 8mm body is suitable for various measurement applications. Our broad lineup including angle and flange type models make it easy to integrate into machines and route the cables.









DF805SLR DF805SR DF805SFR DF805 Series Measuring range 5mm

DF812SLR DF812SFLR DF812SR DF812 Series Measuring range 12mm