DF-MA

CE
IO-Link
c UL US LISTED

Continuous detection sensor of the piston rod's position, for direct mounting on cylinders with T-slot fixing or tie rods with appropriate support brackets.

ISO 15552 - KE/KD/KL series
UNITOP - RP/RO series
ISO 21287 - RM/RN series
STRONG - RS/RQ series
OVALI - OV series
CORSA BREVE - W series

Analog and IO-Link exit standard supplied.

Integrated button for regulation measuring range and selection of analog exit.

Type	ANALOG/IO-LINK
Part no.	**DF-MA**
Stroke measuring range (± 1 mm)	287÷1007 mm depending on the model
Voltage	15÷30 V DC ripple max ≤10%
Type of connection	M8 male 4P
Sampling time	1,15 ms (C)
Resolution	0,03% FS (≥ 0,06 mm) (A)
Linearity	0,5 mm
Repeatability(B)	0,06% FSR (≥ 0,1 mm) (A)
Cylinder's traslation speed	< 3 m/s
Exit function	analog: 0÷10 V
	IO-Link : 4-20 mA
Overload protection	YES
Short circuit protection	YES
Reverse polarity protection	YES
Max. load resistance (output current)	≤500 Ω
Min. load resistance (output voltage)	≥2 KΩ
Power consumption (without loading)	35 mA
Protection class	III
Protection degree	IP65 a norma EN 60529, IP67, IP68
Electromagnetic compatibility	according EN 60947-5-7
Shock	30g/11 ms
Vibrations	total amplitude 1 mm, 10÷55 Hz
Ambient temperature	-20÷+70°C
Container material	aluminium, PA polyamide
LED, operating indication	yellow/red
LED, analog indication	voltage: green current: blue

A) FS: Full-scale
B) T = 25 °C, 24 V DC
C) Only during the standard functionning non IO-Link

CODIFICATION KEY

D	F	-	M	A	0	2	8	7	M	0	8
1					2				3		

1 Series

DF-MA = Magnetic position sensor

2 Measuring range

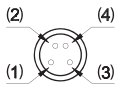
0287 = 287 mm	**0539** = 539 mm	**0791** = 791 mm
0323 = 323 mm	**0575** = 575 mm	**0827** = 827 mm
0359 = 359 mm	**0611** = 611 mm	**0863** = 863 mm
0395 = 395 mm	**0647** = 647 mm	**0899** = 899 mm
0431 = 431 mm	**0683** = 683 mm	**0935** = 935 mm
0467 = 467 mm	**0719** = 719 mm	**0971** = 971 mm
0503 = 503 mm	**0755** = 755 mm	**1007** = 1007 mm

3 Connection

M08 = M8 connector analog exit and IO-Link

Electrical connections

M08



No. Pin	Cable	Analog exit M8/IO-Link connector
1	Brown	15÷30 V DC
2	White	4-20 mA
3	Blue	0 V
4	Black	0÷10 V IO-LINK

DHF-P2/54M08

DHF-P24M08
M8 in-line connector 2 meters cable

DHF-P54M08
M8 in-line connector 5 meters cable

DF-MAF12T

Sensor mounting bracket on cylinders with T-slot fixing

Detection area:
287÷431 mm (3pcs) 683÷791 mm (5pcs)
467÷647 mm (4pcs) 827÷1007 mm (6pcs)

DF-MAF12TR

Sensor mounting bracket for cylinders series K (Ø160÷320 mm)