

SERIES DF/MA - ANALOG EXIT/IO-LINK POSITION SENSOR FOR CYLINDER



Temperature

- 20 °C
+ 70 °C

CHARACTERISTICS



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.

A) FS: Full-scale

B) T = 25 °C, 24 V DC

C) Only during the standard functioning non IO-Link

TYPE	ANALOG	IO-Link
CODE	DF-MA	
Stroke measuring range (± 1 mm)	287÷1007 mm depending on the model	
Voltage	15÷30 V DC ripple max $\leq 10\%$	
Type of connection	M8 male 4P	
Sampling time	1,15 ms ^(C)	
Resolution	0,03% FS ($\geq 0,06$ mm) ^(A)	
Linearity	0,5 mm	
Repeatability(B)	0,06% FS ($\geq 0,1$ 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)	$\leq 500 \Omega$	
Min. load resistance (output voltage)	$\geq 2 \text{ K}\Omega$	
Power consumption (without loading)	35 mA	
Protection class	III	
Protection degree	IP65 according EN 60529, IP67, IP68	
Electromagnetic compatibility	according EN 60947-5-2	
Shock	30g/11 ms	
Vibrations	total amplitude 1 mm, 10÷55 hz	
Container material	aluminium, PA polyamide	
LED, operating indication	yellow/red	
LED, analog indication	voltage: green, current: blue	

Series

Range

Connection

DF - MA

DF-MA Magnetic position sensor

0 2 8 7

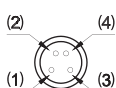
0287 = 287 mm **0503** = 503 mm **0719** = 719 mm **0935** = 935 mm
0323 = 323 mm **0539** = 539 mm **0755** = 755 mm **0971** = 971 mm
0359 = 359 mm **0575** = 575 mm **0791** = 791 mm **1007** = 1007 mm
0395 = 395 mm **0611** = 611 mm **0827** = 827 mm
0431 = 431 mm **0647** = 647 mm **0863** = 863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

M 0 8

M08 M8 connector analog exit and IO-Link

Electrical connections

M08



N. 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-P...



DHF-P24M08
M8 in-line connector 2 meters cable

DHF-P54M08
M8 in-line connector 5 meters cable

DF-MAF12T



Detection area:
Sensor mounting bracket on cylinders with T-slot fixing

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 ($\varnothing 160 \div 320$ mm)