

## SERIES DF/MS - ANALOG EXIT AND 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.

- ISO 15552 - KE/KD/KL series
- UNITOP - RP/RO series
- ISO 21287 - RM/RN series
- STRONG - RS/RQ series
- OVAL - OV series
- SHORT STROKE - W series
- GUIDED COMPACT - JLE series

Available with analog exit or IO-LINK.  
Button Teach-In for measuring range regulation.

Possibility of mounting on tie-rod cylinders or on round cylinders, with special brackets.

A) FS: Full-scale  
B) T = 25 °C, 24V DC

TYPE	ANALOG	IO-Link
	DF-MS	
Part no.		
Stroke measuring range ( $\pm 1$ mm)	5÷256 mm depending on the model	
Voltage	15÷30 V DC ripple max $\leq 10\%$ (24 V DC)	
Type of connection	M8 male 4P	
Sampling time	1 ms	
Resolution	0,03% FS ( $\geq 0,05$ mm) <sup>(A)</sup>	
Linearity	0,3 mm	
Repeatability(B)	0,06% FS ( $\geq 0,1$ mm) <sup>(A)</sup>	
Cylinder's traslation speed	< 3 m/s	
Exit function	analog	IO-LINK
	0-10 V	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)	$\geq 2 K\Omega$	
Power consumption (without loading)	22 mA	25 mA
Protection class	III	
Protection degree	IP67	
Electromagnetic compatibility	according EN 60947-5-2	
Shock	30g/11 ms	
Vibrations	10 ... 55 Hz, 1 mm	
Container material	plastic	
LED, operating indication	yellow	

Series

Range

Connection

**DF - MS**

DF-MS Magnetic position sensor

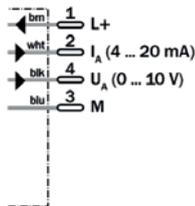
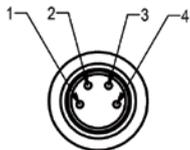
**0 3 2**

032 = 32 mm      160 = 160 mm  
064 = 64 mm      192 = 192 mm  
096 = 96 mm      224 = 224 mm  
128 = 128 mm      256 = 256 mm

**M 0 8**

M08 M8 connector analog and IO-Link exit

### Electrical connections



N. Pin	Cable	Function
1	Brown	Supply port +
2	White	output current
3	Blue	Supply port -
4	Black	output current

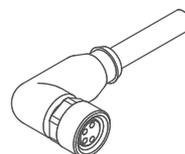
DHF-P...

DHF-P...



**DHF-P24M08**  
M8 in-line connector 2 meters cable

**DHF-P54M08**  
M8 in-line connector 5 meters cable



**DHF-P24M0890**  
M8 4pin-female 90° connector with 2 metres cable

**DHF-P54M0890**  
M8 4pin-female 90° connector with 5 metres cable