

The sensors mounted onto the cylinders detect the position of the piston by commutating an electric signal when approaching the magnetic field produced by the magnet incorporated in the piston itself.

They are manufactured using two different technologies: electromechanical with Reed bulb; electronic with magneto-resistive effect (normally open with PNP output); upon request with NPN output.

The first one with Reed bulb function both in d.c. and a.c.; the second ones, electronic type function only in d.c. 30V max. In both versions the active status is indicated by the lighting of a luminous diode.





		electronic		electrom	DF-520			
Characteristics	Туре	DF-770 3 wires PNP N.O.	DF-220 2 wires N.O.	DF-330 3 wires PNP N.O.	DF-440 3 wires PNP N.C.	3 wires PNP N.C. more sensitive		
Nominal voltage	V AC/DC	24V DC	24V AC/DC	24V AC/DC	24V AC/DC	24V AC/DC		
Working voltage	V AC/DC	730V	530V	530V	530V	530V		
Max. switching current	mA	200	120	500	500	120		
Max. switching power	W/VA	6	3,6	6	6	3,6		
Max. voltage drop	V AC/DC	0,7V	2,8V	0,1V	0,1V	2,8V		
Minimum magnetic field	gauss	30	60	60	60	50		
Opening response time	ms	0,08	< 0,5	< 0,5	< 0,5	< 0,5		
Closing response time	ms	0,03	< 1	<1	< 1	< 1		
Electric life with resistive load	Cicli	>109	>10 ⁷	>107	>107	>107		
State indicator	Red	LED	LED	LED	LED	LED		
Cable number and section	mmq	3 x 0,14	2 x 0,14	3 x 0,14	3 x 0,14	3 x 0,14		
Electric circuit (page 4)	Type	С	А	С	D	D		
Protection degree	DIN40050	IP65						
Working temperature	°C	- 20 + 80 °C						

Part numbers

- Sensor with cable 3 m	DF-770	DF-220	DF-330	DF-440	DF-520		
- Sensor with cable 20 cm male connector M08	DF-770M08	DF-220M08	DF-330M08	DF-440M08	DF-520M08		
- Sensor with cable 20 cm male connector M12	DF-770M12	DF-220M12	DF-330M12	DF-440M12	DF-520M12		
- Cable extension M08 3 m 3 poles	DHF-033M08						
- Cable extension M08 5 m 3 poles	DHF-053M08						
- Cable extension M12 3 m 3 poles	DHF-033M12						
- Cable extension M12 5 m 3 poles	DHF-053M12						
- Cable clamping	DF-001						

For the use of 3-pole cable extensions M08 and M12 with magnetic sensor DF-220, DF-220M08, DF-220M12 exclude blue wire when connecting.

Note: observe polarity for d.c. use, avoid that magnetic fields affect the sensor, for cables with length exceeding 10 m insert filter KM-008200, for use with inductive loads foresee suitable filters on the load itself.