

SERIES DF/DH - MAGNETIC AND ELECTRONIC PROXIMITY SENSORS



Temperature

- 20 °C
+ 80 °C



Reference Standard

ATEX
2014/34/UE

CHARACTERISTICS



Other available versions
(M08-M12)

DF-220M08 DF-220M12
DF-330M08 DF-330M12
DF-440M08 DF-440M12
DF-770M08 DF-770M12

With 5 meters cable

DF-220L5

DF-330L5

With 10 meters cable

DF-220L10

DF-330L10

Cable extensions

DHF-033 M08 = 3 m M08

DHF-033 M12 = 3 m M12

DHF-053 M08 = 5 m M08

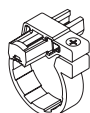
DHF-053 M12 = 5 m M12

TYPE	ELECTROMECHANICAL REED		ELECTRONIC PNP	
	DF-220	DF-330*	DF-440	DH-700
Part No.				
Working voltage (V AC/DC)	5÷30 V AC/DC	5÷30 V AC/DC	5÷30 V AC/DC	5÷30 V DC
Max switching current (mA)	100	100	100	100
Max switching power (W/VA)	3	3	3	3
Max voltage drop (V AC/DC)	<3,5	0,1	0,1	0,7
Minimum magnetic field (gauss)	60	60	60	30
Opening response time (ms)	< 0,5	< 0,5	< 0,5	0,08
Closing response time (ms)	< 1	< 1	< 1	0,03
Electric life with resistive load (cycles)	>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁹
State indicator (LED)	red	red	red	red
Cable number and section (mmq)	2x0,14	3x0,14	3x0,14	3x0,14
Cable length (mm)	3000	3000	3000	3000
Electric circuit	A	C	D	C
Protection degree (EN60529)	IP67			

*: On request NPN (DF-330NPN con cavo 3 m)

Fixing elements

Fixing bracket for M series cylinders Series M



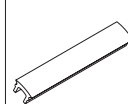
DH-M10DF
DH-M12DF
DH-M16DF
DH-M20DF
DH-M25DF

Cable clamping



DF-001

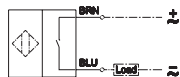
Covering strip



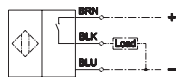
DHF-0020100

Electrical Circuit- Version with cable

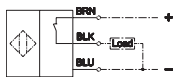
AC/DC 2 wires NO



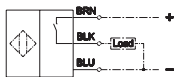
DC 3 wires PNP NO



DC 3 wires PNP NC



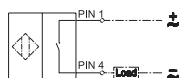
DC 3 wires NPN NO



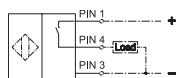
BRN = Brown BLK = Black BLU = Blue

Electrical Circuit - Version with connector

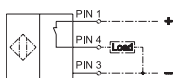
AC/DC 2 wires NO



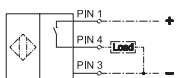
DC 3 wires PNP NO



DC 3 wires PNP NC



DC 3 wires NPN NO



PIN 1 = Brown PIN 2 = White PIN 3 = Blue PIN 4 = Black

M08 2 wires



M12 2 wires



M08 3 wires

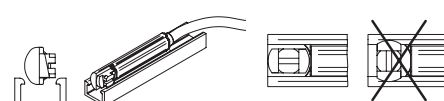


M12 3 wires



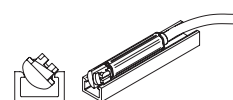
Assembly instructions

1



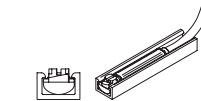
Put the sensor in the proper groove and make sure that the fastening plate has the slot for screwdriver along the sensor axis.

2



Put the sensor inside its groove and make sure that the fastening plate is on the open part of the groove.

3



Check the correct position of the sensor in the groove. Turn it to the wished position for detection.

4



Keep the sensor in its position and screw the fastening plate to fix the sensor in the groove. Max torque: 0,5 ÷ 1 Nm

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+ 80 °C



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ATEX
2014/34/UE

CHARACTERISTICS



Other available versions (M08-M12)

DH-200M08 DH-200M12
DH-500M08 DH-500M12
DH-700M08 DH-700M12

Cable extensions

DHF-033M08 = 3 m M08 (max 60 V)
DHF-033M12 = 3 m M12
DHF-053M08 = 5 m M08 (max 60 V)
DHF-053M12 = 5 m M12

With 5 meters cable

DH-200L5 DH-200L10
DH-500L5 DH-500L10
DH-700L5 DH-700L10

With 10 meters cable

TYPE Part No.	ELECTROMECHANICAL REED		ELECTRONIC PNP	
	KM-032000	DH-200	DH-500	DH-700
Working voltage (V AC/DC)	5÷250 V AC/DC	5÷250 V AC/DC	5÷250 V AC/DC	0÷30 V DC
Max switching current (mA)	1000	200	200	200*
Max switching power (W/VA)	30	10	10	5
Max voltage drop (V AC/DC)	< 3,5	< 3,5	< 3,5	0,7
Minimum magnetic field (gauss)	85	85	60	30
Opening response time (ms)	< 0,5	< 0,5	< 0,5	0,08
Closing response time (ms)	< 1	< 1	< 1	0,03
Electric life with resistive load (cycles)	>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁹
State indicator (LED)	red	red	red	red
Cable number and section (mmq)	2x0,25	2x0,25	2x0,25	3x0,25
Cable length (mm)	3000	3000	3000	3000
Electric circuit	A	A	A	C
Protection degree (EN60529)	IP65			

* 100mA with working temperature > +50°C

Fixing elements

Fixing bracket for M series cylinders



DH-M10
DH-M12
DH-M16
DH-M20
DH-M25

Fixing bracket for K series cylinders



DH-K160200
DH-K250

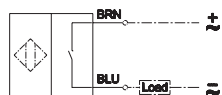
Fixing bracket for S1 series rodless cylinders



DH-S25
DH-S32
DH-S40
DH-S50

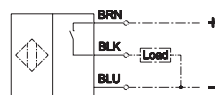
Electrical Circuit - Version with cable

AC/DC 2 wires NO



BRN = Brown
BLK = Black
BLU = Blue

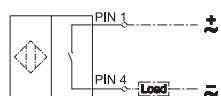
DC 3 wires PNP NO



BRN = Brown
BLK = Black
BLU = Blue

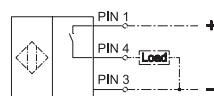
Electrical Circuit - Version with connector

AC/DC 2 wires NO



PIN 1 = Brown
PIN 2 = White
PIN 3 = Blue
PIN 4 = Black

DC 3 wires PNP NO



PIN 1 = Brown
PIN 2 = White
PIN 3 = Blue
PIN 4 = Black



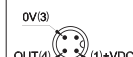
M08 2 wires



M12 2 wires



M08 3 wires



M12 3 wires