

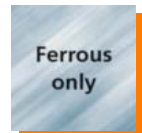
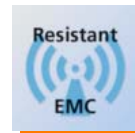
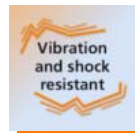


500 bar? No problem! New hydraulic sensors



Very robust position sensors with 1 mm-thick metal face

- Extremely pressure resistant with over 10 million pressure cycles
- Best value performer
- Complementary output provides higher operational reliability
- Standard M12 housing with ingress-resistant cable entry
- Short housing (40 mm) for extremely low-profile cylinders



Function principle

The new MFH series sensor is suited for flush mounting in various steels. With its 1.8 mm sensing range it shows reliable switching characteristics.

The new operating principle of this unit is based on a magnetic-inductive technology that detects only ferromagnetic metals (e.g. steel). It is sealed by means of an O-ring and a supporting ring towards the pressure area.

Applications

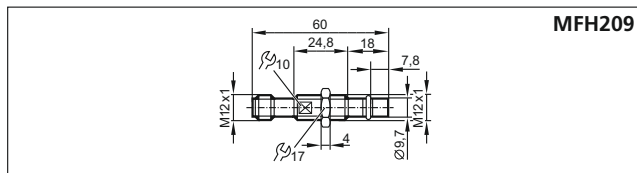
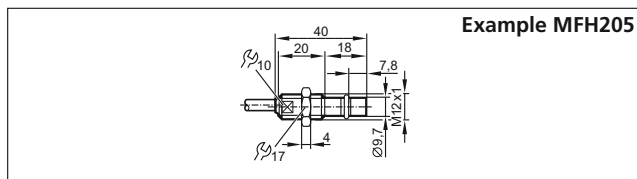
Besides use in hydraulic cylinders, the sensor is also ideal for other hydraulic components such as valves or pumps. MFH operates reliably for the lifetime of the cylinder. Furthermore, it is used in mechanical engineering processes, e.g. in plastic injection-moulding or process industry applications.

Its attractive price means the sensor can also be considered for simple components where this option used to be too expensive.

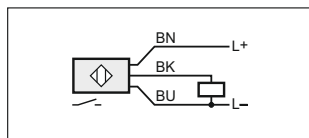


Type	Housing length [mm]	Sensing range [mm]	LED	Ambient temperature [°C]	Output	Order no.
Cable connection						
M12	40	1.8 f	•	-25...85	PNP, NO	MFH205
M12	40	1.8 f	•	-25...85	NPN NO	MFH206
M12	40	1.8 f	•	-25...85	PNP, NC	MFH207
M12	40	1.8 f	•	-25...85	PNP, NO/NC	MFH208
M12 connector, complementary						
M12	60	1.8 f	-	-25...120	PNP, NO/NC	MFH209

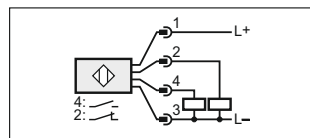
Dimensions



Wiring






MFH205



MFH209





Accessories

Type	Description	Order no.
	Optical particle monitor	LDP100
	Seal process connection, set 5 O-rings + 5 supporting rings	E12451
	Switched-mode power supply 24 V DC / 5 A, metal housing	DN4012

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Common technical data		
Operating voltage	[V]	10...36 DC
Current rating	[mA]	200
Switching frequency	[Hz]	1000
Short-circuit protection, pulsed		•
Protected against reverse polarity / overload protected		• / •
Operating pressure	[bar]	500
Pressure rating, static	[bar]	1000
Burst pressure	[bar]	2000
Protection rating, protection class		IP 65 / IP 68 / IP 69K, III
Housing material		stainless steel 1.4404

Connection technology

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	EVC001
	M12 socket, 2 m black, PUR cable, LED	EVC644
	Y splitter, "OR" M12 connector / 2x M12 socket	EBC117
	Y splitter, "AND", M12 connector / 2x M12 socket	EBC118