




# Level magnetic sensors

## Cylindrical

Types	ILM series	ILMM series	ILMP series
			

Float Diameter (mm)	Ø 53	Ø 28	Ø 25
---------------------	------	------	------

### Output functions

ILM series	ILMM series	ILMP series
Normally open, Normally closed [2, 8] Change-over [S2]	Normally open and normally closed [5, 590, 5ATS1] Normally open [5S1] Normally closed [5S2, 5S2AT]	Normally open, normally closed

### Electrical specifications

Max. switch. voltage contact	230 VAC [S2] - 250 VAC [2] 1500 VAC [8]	240 VAC, 220 VDC	240 VAC, 200 VDC
Max. switch. current contact	1 A [S2] 3 A [2, 8]	0.5 A	0.5 A
Max. switch. power contact	60 VA [S2] - 100 VA [2] 120 VA [8]	50 VA	50 VA

### General specifications

Output connection	Silicone cable, 0.5 m	XLPE cable, 0.3 m 1,1 m [ATS1]	PVC cable, 0.3 m
Min. liquid specific gravity	0.75 kg / dm <sup>3</sup>	0.75 kg / dm <sup>3</sup>	
Max. pressure	20 kg / cm <sup>2</sup>	10 kg / cm <sup>2</sup>	2 kg / cm <sup>2</sup>
Degree of protection	IP 67	IP 67	IP 67
Operating temperature	-25 to +120 °C [2, 8, S2]	-10 to +120°C [5, 590] -10 to +200°C [5ATS1, 5S2AT] -20 to +120°C [5S1, 5S2]	-20°C to +80°C
Housing materials	AISI 316 Stainless steel	AISI 304 stainless steel [5, 590 5ATS1] AISI316 stainless steel [5S2AT, 5S1, 5S2]	Plastic

### References

Normally open / Normally closed	<b>ILM2</b> <b>ILM8</b>	<b>ILMM5</b> <b>ILMM590</b> <b>ILMM5ATS1</b>	<b>ILMP5</b> <b>ILMP5P</b>
Change - Over	<b>ILMS2</b>		
Normally closed		<b>ILMM5S2AT</b> <b>ILMM5S2</b>	
Normally open		<b>ILMM5S1</b>	

# Level magnetic sensors

## Cylindrical

Types	ILMPU - ILU - ILMU series	ILSP series	FLM series - Flux Sensors
			

Float Diameter (mm)	Ø 17.5 [ILMPU] Ø 31 [ILMU] Ø 45 [ILU]	Ø 44	Ø 20
---------------------	---	------	------

### Electrical specifications

Max. switch. voltage contact	240 VAC, 200 VDC [ILMPU5, ILMU5] 250 VAC [ILU2] 1000 VAC [ILU8]	230 VAC [S2] 250 VAC [2] 1500 VAC [8]	100 VAC
Max. switch. current contact	0.5 A [ILMP, ILM] 1 A [ILUS2] 3 A [ILU2, ILU8]	1 A [S2] 3 A [2, 8]	0.4 A
Max. switch. power contact	50 VA [ILMP, ILM] 60 VA [ILUS2] 100 VA [ILU2] 120 VA [ILU8]	60 VA [S2] 100 VA [2] 120 VA [8]	10 VA

### General specifications

Output connection	XLPE cable, 0.3 m [ILMPU5] PVC cable, 0.3 m [ILMU5] Silicone cable, 0.5 m [ILU2, ILU8, ILUS2]	Silicone cable, 0.5 m	HT105 PVC cable ended with 6.35 mm female faston
Operating distance $D_{on}$			+5 mm
Release distance $D_{off}$			$D_{on} - 2$ mm
Min. liquid specific gravity	0.70 kg / dm <sup>3</sup> [ILMPU, ILMU] 0.75 kg / dm <sup>3</sup> [ILU]	0.75 kg / dm <sup>3</sup>	
Max. pressure	2 kg / cm <sup>2</sup> [ILMPU, ILMU] 100 kg / cm <sup>2</sup> [ILU]	0.6 kg / cm <sup>2</sup>	
Degree of protection	IP 68	IP 67	IP 67
Operating temperature	-20 to +80°C [ILMPU, ILMU] -25 to +100°C [ILU]	-25 to +100 °C	-30 to +105°C
Housing materials	Non toxic polypropylene or plastic	Plastic	Stainless steel

### References

Normally open / Normally closed	ILMPU5 ILMU5	ILSP2 ILSP8	
Normally open	ILU2 ILU8		FLMA1S1
Change - Over	ILUS2	ILSPS2	