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Application Engineering Europe

MIA…-FLR MOISTURE / LIQUID INDICATOR

A3 A1 A2L

General information /

The MIA…-FLR series of Moisture Indicators are designed to monitor the moisture content within the liquid line of a refrigeration system.
MIA…-FLR series with stainless steel body and extended copper tube connections are fully hermetic products without the use of any gasket.

MIA…-FLR

Features

- Maximum working Pressure PS: 35 bar
- Fully hermetic
- Lower Pressure drop
- Corrosion free stainless-steel body
- Crystal Indicator element for long lifetime and reliability
- Easily determination of moisture content
- Sensitive indicator with calibrated four colours. Conforms to requirement of most compressor manufacturers
- Large clear viewing area
- ODF extended tube configurations suitable for all commercial applications

NOTE: Product types for safety class A1 / A2L, please refer to separate documents.

Selection Table

Type	Part No.	For Tube Outside Diameter		Configuration	Illustration
		(mm)	(Inch)		
MIA M06-FLR	**805901**	6		Female solder x female solder ODF x ODF	
MIA 014-FLR	**805895**		1/4		
MIA M10-FLR	**805894**	10			
MIA 038-FLR	**805896**		3/8		
MIA M12-FLR	**805902**	12			
MIA 012-FLR	**805897**		1/2		
MIA 058-FLR	**805898**		5/8		
MIA 078-FLR	**805899**	22	7/8		
MIA M28-FLR	**805903**	28			
MIA 118-FLR	**805900**		1 1/8		
MIA M10S-FLR female/male	**805904**	10		Female solder x male solder ODF x ODF	
MIA M12S-FLR female/male	**805905**	12			

NOTE: For assistance with selection, please contact your local Emerson Sales offices.

Technical Data

Max. allowable Pressure PS	35 bar
Max. Test Pressure PT	49.5 bar
Temperatures Medium	-40…+100 °C
Connections	ODF extended copper tubes

Installation / Location	In any position
Pressure Drop	negligible
Released Refrigerants Fluid group I	R290 (A3)
Standards	EN 12178

Crystal Indicator

Where many products in the market use insensitive and technically simple paper indicators. Emerson has retained the long-established crystal moisture indicators in all existing product series because of its known advantages. This guarantees system performance by providing a sensitive and durable monitoring of the systems moisture content. enabling the indicator to react to a minimum moisture level of 50 ppm specified by leading compressor manufacturers (see Asercom statement: www.asercom.org).

Color Code

MIA…-FLR	Refrigerants	(A3) R290		
	Colour code	Liquid temperature (°C) 25	38	52
ppm Blue/ Dry		2	5	10
ppm Purple		8	8	16
ppm Fuchsia/ Caution		9	18	36
ppm Rose/ Caution WET!		14	29	59

NOTE: In area “Caution” and “Caution wet” filter drier should be changed.

Dimension (mm)

Type	Part No.	For Tube Outside Diameter	Height A (mm)	Lenght B (mm)	Weight (g)
MIA M06-FLR	**805901**	6 mm	25.9	98.0	60
MIA 014-FLR	**805895**	1/4”	25.7	98.0	60
MIA M10-FLR	**805894**	10 mm	28.5	109.0	70
MIA 038-FLR	**805896**	3/8”	28.5	109.0	70
MIA M12-FLR	**805902**	12 mm	28.5	113.0	75
MIA 012-FLR	**805897**	1/2”	31.8	113.0	75
MIA 058-FLR	**805898**	5/8”	31.8	108.5	85
MIA 078-FLR	**805899**	7/8”	37.8	122.5	150
MIA M28-FLR	**805903**	28 mm	43.5	122.5	190
MIA 118-FLR	**805900**	1 1/8”	43.5	122.5	190
MIA M10S-FLR female/male	**805904**	10 mm	28.7	119	75
MIA M12S-FLR female/male	**805905**	12 mm	28.5	113	75