

Technical Data:

Electrical Connection: IP68 Connector 12-04BFFA, incl. plug connector *1)
 Supply Voltage: 15...36V DC ($U_{bmin} = 15 \text{ V } R_{load} * 0.02A$)
 Output rel. Humidity: 4...20mA according to 0...100%
 Output Temperature: 4...20mA according to -20...80°C
 Current Consumption: max. 22mA (RAF), max. 44mA (RAFT)

Sensor, Measuring Range,


Sensor Element Temperature: integrated Temperature Sensor
 Measuring Range Temperature: -20°C...80°C
 Sensor Element Humidity: Capacitive Sensor
 Measuring Range rel. Humidity: 0% ...100%
 Long Term Stability: +/- 1.0% / Year

Connecting Conditions

Ambient Temperature: -20°C ... 80°C
 Working Range, r.H.: 10% ... 95% r.H.
 Storage Temperature: -20°C ... +50°C
 Running-in Time: < 10 Minutes
 t_{90} : < 30 Seconds

Miscellaneous

Sensor Protection: Sintered Filter
 Housing RAF[...] -PK101: Polyamide Housing white, similar RAL 9010
 Housing RAF[...] -ALU-PK101: die-cast aluminium Housing silver grey, similar RAL 9007
 Protection Class: IP 65 (only Housing), Sensor IP30
 In Scope of Delivery: User Manual, Device, plug connector

Device Type	RAF-BL-I-PK101	RAFT/A-I-PK101	*1
Measuring Range rel. Humidity	0...100%	0...100%	
Deviation relative Humidity	+/-3% r.H. (*1)	+/-3% r.H. (*1)	
Output relative Humidity	4...20mA	4...20mA	
Measuring Range Temperature	-	-20...80°C	
Deviation Temperature	-	+/- 0,5K (*2)	
Output Temperature	-	4...20mA	
Sintered Filter	Stainless Steel P	Stainless Steel P	

*1) in Range of 30%...70% r.H. and +20°C, otherwise +/-5% at 20°C *2) at +20°C

Memo:

