



# IECEX & ATEX-Approved Rotary Level Indicators

## Bin Indicators for Hazardous Environments

BMRX-100, BMRX-200, and BMRX-300 ATEX-certified models meet C/US Class I and Class II IECEx-ATEX Gas Ex and Dust Ex standards. This ensures safe, reliable operation in explosive atmospheres where flammable dust and gases are present, or may be present.

## Detect Solid & Powder Levels in Industrial Processing

Engineered for performance in industries such as agriculture, plastics, cement, biofuels, food processing, and mining, BinMaster IECEx and ATEX-certified rotary level indicators provide dependable level detection in silos, bins, and hoppers containing powders, granules, pellets, and bulk solids.

## Reduce Climbing & Keep Employees Safe

Automated alerts sent via a relay or indicated by the light on the lid of the BMRX-300 curtail the need for manual level measurements. Robust construction and advanced safety features make these bin level indicators an ideal choice for facilities requiring compliance with IECEx and European ATEX directives.

## Minimize Operational Disruptions & Overfills

Use BinMaster rotaries in material densities from 2 to 100 lb./ft.<sup>3</sup>

### Three IECEx-ATEX-approved rotaries for all budgets:

- Durable, explosion-proof red housing
- Heavy-duty motor for harsh conditions
- Use in very light to heavy materials
- BMRX-300 provides true fail-safe protection
- 360° installation and minimal maintenance
- Short lead time; shipped within seven days



# Rotary Specifications



	BMRX-100	BMRX-200 DC	BMRX-200 AC	BMRX-300 DC	BMRX-300 AC	Mini
Power Supply	115 VAC 50/60 Hz	12 to 24 VDC	115 VAC 50/60 Hz	12 to 24 VDC	115/230 VAC, 50/60 Hz	110 VAC 50/60 Hz
	230 VAC 50/60Hz		230 VAC 50/60Hz			220 VAC 50/60 Hz
	24 VAC 50/60Hz		24 VAC 50/60Hz			24 VAC 50/60 Hz
Supply Tolerance	-15% to +10%	-15% to +10%	-15% to +10%	-15% to +10%	-15% to +10%	
Load	4 VA	4 VA	5 VA	4 VA	7 VA	
Fuse	Not applicable	400mA resettable fuse	Not applicable	400mA resettable fuse	2 AMP 250V TR5 Time Lag PCB mount	Not applicable
Ambient Temperature (electronics)	-40°F to +131°F (-40°C to +55°C)	-40°F to +131°F (-40°C to +55°C)	-40°F to +131°F (-40°C to +55°C)	-40°F to +131°F (-40°C to +55°C)	-40°F to +131°F (-40°C to +55°C)	-40°F to +131°F (-40°C to +55°C)
Process Temperature	400°F (204°C)	400°F (204°C)	400°F (204°C)	400°F (204°C)	400°F (204°C)	
Enclosure Type	4X / IP66	4X / IP66	4X / IP66	4X / IP66	4X / IP66	NEMA 1
Enclosure Material	Die cast aluminum, powder coat finish	Die cast aluminum, powder coat finish	Die cast aluminum, powder coat finish	Die cast aluminum, powder coat finish	Die cast aluminum, powder coat finish	Polycarbonate
Relay Output	SPDT contacts; 10 Amps 250 VAC	DPDT contacts; 8 Amps 250 VAC	DPDT contacts; 8 Amps 250 VAC	DPDT contacts; 8 Amps 250 VAC	DPDT contacts; 8 Amps 250 VAC	SPDT contacts; 3 Amps 250 VAC
Fail Safe	Not applicable	Switch selectable "High" or "Low" level modes	Switch selectable "High" or "Low" level modes	Switch selectable "High" or "Low" level modes	Switch selectable "High" or "Low" level modes	Not applicable
Time Delay	Not applicable	Not applicable	Not applicable	Selectable 5 seconds (default); programable to 30 seconds	Selectable 5 seconds (default); programable to 30 seconds	Not applicable
LED Status Indication (optional)	Not applicable	Not applicable	Not applicable	Paddle rotating: Rotating GREEN	Paddle rotating: Rotating GREEN	Not applicable
				Paddle covered: Solid RED	Paddle covered: Solid RED	
				Instrument Fault: Flashing YELLOW	Instrument Fault: Flashing YELLOW	
Status Relay Output	Not applicable	Not applicable	Not applicable	200V 1.5 Amp AC or DC SPST - Normally Open	200V 1.5 Amp AC or DC SPST - Normally Open	Not applicable
Mounting	1-1/4" NPT	1-1/4" NPT, 1-1/2" NPT, 1-1/2" Tri-clover	1-1/4" NPT, 1-1/2" NPT, 1-1/2" Tri-clover	1-1/4" NPT, 1-1/2" NPT, 1-1/2" Tri-clover	1-1/4" NPT, 1-1/2" NPT, 1-1/2" Tri-clover	3/4" PF
Conduit Entries	3/4" NPT	3/4" NPT	3/4" NPT	3/4" NPT	3/4" NPT	Not applicable
Shaft Seal	1/2 micron, 30 PSI	1/2 micron, 30 PSI	1/2 micron, 30 PSI	1/2 micron, 30 PSI	1/2 micron, 30 PSI	
Available certifications (contact BinMaster to verify certifications by model)	<ul style="list-style-type: none"> <li>&gt; Hazard locations C/US Class II</li> <li>&gt; IECEx/ATEX Zone 20,21 C/US Class II</li> <li>&gt; Ordinary locations</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Hazardous Locations C/US Class I &amp; II</li> <li>&gt; Hazardous Locations C/US Class II</li> <li>&gt; Hazardous Locations IECEx / ATEX Zone 1,20,21 C/US Class I &amp; II</li> <li>&gt; Hazardous Locations IECEx / ATEX Zone 20,21 C/US Class II</li> <li>&gt; Ordinary locations</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Hazardous Locations C/US Class I &amp; II</li> <li>&gt; Hazardous Locations C/US Class II</li> <li>&gt; Hazardous Locations IECEx / ATEX Zone 1,20,21 C/US Class I &amp; II</li> <li>&gt; Hazardous Locations IECEx / ATEX Zone 20,21 C/US Class II</li> <li>&gt; Ordinary locations</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Hazardous Locations C/US Class II</li> <li>&gt; Hazardous Locations IECEx / ATEX Zone 20,21 C/US Class II</li> <li>&gt; Hazardous Locations C/US Class I &amp; II</li> <li>&gt; Hazardous Locations IECEx / ATEX Zone 1,20,21 C/US Class I &amp; II</li> <li>&gt; Ordinary locations</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Hazardous Locations C/US Class II</li> <li>&gt; Hazardous Locations IECEx / ATEX Zone 20,21 C/US Class II</li> <li>&gt; Hazardous Locations C/US Class I &amp; II</li> <li>&gt; Hazardous Locations IECEx / ATEX Zone 1,20,21 C/US Class I &amp; II</li> <li>&gt; Ordinary locations</li> </ul>	



## **BINMASTER**

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