

R7z

Easy Torque Adjustment
Easy maintenance & Repair
Small size
Reliable design
Low cost
CE marked
IP65 Rated



GENERAL DESCRIPTION

The R7z rotating paddle sensor is designed for use with plastic moulding or injection machines and extruders. It can also be designed into equipment such as grain processing machines and granulating equipment. These products are the most compact units of their type and are designed to give reliable service.

APPLICATIONS

The R7z series is designed for use in the plastic, chemical, food and other associated industries. It helps prevent hopper overflow, empty holding tanks, plugged chutes and damaged equipment.

HOW THEY WORK

When power is supplied to an R7z sensor, a motor powers a revolving shaft to which a paddle is mounted. When the medium level inside the container reaches the revolving paddle the rotation is halted and the motor rotates around the shaft and activates an isolated SPDT micro switch. This removes the power from the motor so that it stops rotating and an alarm signal is provided. When the medium level falls below the paddle the motor resets and the micro switch restores the revolving action.

TECHNICAL NOTE

For low level detection, the R7z can be used in upto 5 metres head in a hopper by providing a protective shield above the paddle. If not provided, 1 metre height is maximum.

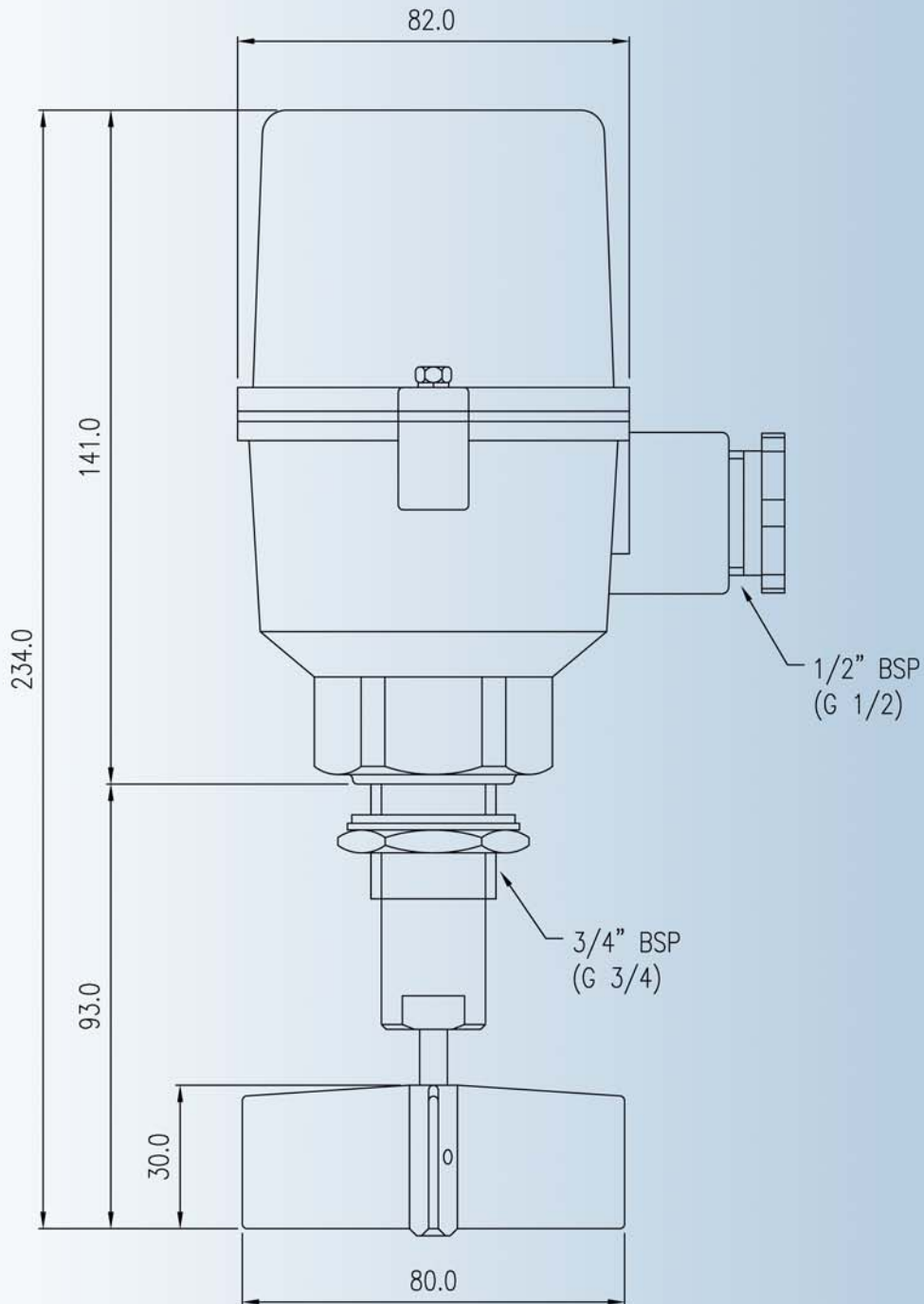
SPECIFICATIONS

| | | |
|----------------------------|--------------------------------|--------------------------------------|
| Tank or Container | Open Type | |
| Power Supply | 24, 110, 240VAC, 50/60Hz | |
| Power Consumption | 1.5VA | |
| Motor Rotation | 1 rpm (50Hz) or 1.2 rpm (60Hz) | |
| Relay Contact (resistive) | 1 SPDT, 250V 3A AC/30V 3A DC | |
| Materials: | Housing | R7z; ADC12 and ABS |
| | Mounting Section | Brass (galvanised) |
| | Spindle | 304 Stainless Steel |
| | Paddle | Polycarbonate or 304 Stainless Steel |
| Operating Temperature | -10°C to 70°C | |
| Humidity | 5 to 85% RH | |
| Max. Pressure in Container | 0.3 Bar | |
| Electrical Connection | G1/2" Cable gland | |
| Impact Resistance | 35G Max. | |
| Max. Cable Pull Load | 196N | |
| Max. Paddle Pull Load | 588N | |
| Max. Load (at paddle tip) | 125N | |

Detection torque can be easily adjusted on site by changing the spring position. The R7z has four torque settings from A to D. Default setting is B.

A = 500 g/cm
B = 390 g/cm
C = 315 g/cm
D = 270 g/cm

DIMENSIONS (MM)



PADDLE SELECTION

| | | | |
|------------------|-------|------------|------------------------------------|
| Four vane | PC | 80 x 30mm | More than 0.3 g/cm ³ |
| Two vane | 304SS | 80 x 35mm | More than 0.3 g/cm ³ |
| Single vane | 304SS | 60 x 30mm | More than 2.0 g/cm ³ |
| Special two vane | 304SS | 150 x 60mm | From 0.02 to 0.2 g/cm ³ |

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