



R7z

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 provide reliable service.

Typical 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, blocked chutes and damaged equipment.

Operation

When power is supplied to the R7z sensor, a motor powers a revolving shaft to which a paddle is mounted. When the 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.

Low Level Detection

The R7z can be used in up to 5 metres head in a hopper by providing a shield above the paddle. If not provided 1 metre height is the maximum.

Torque adjustment

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

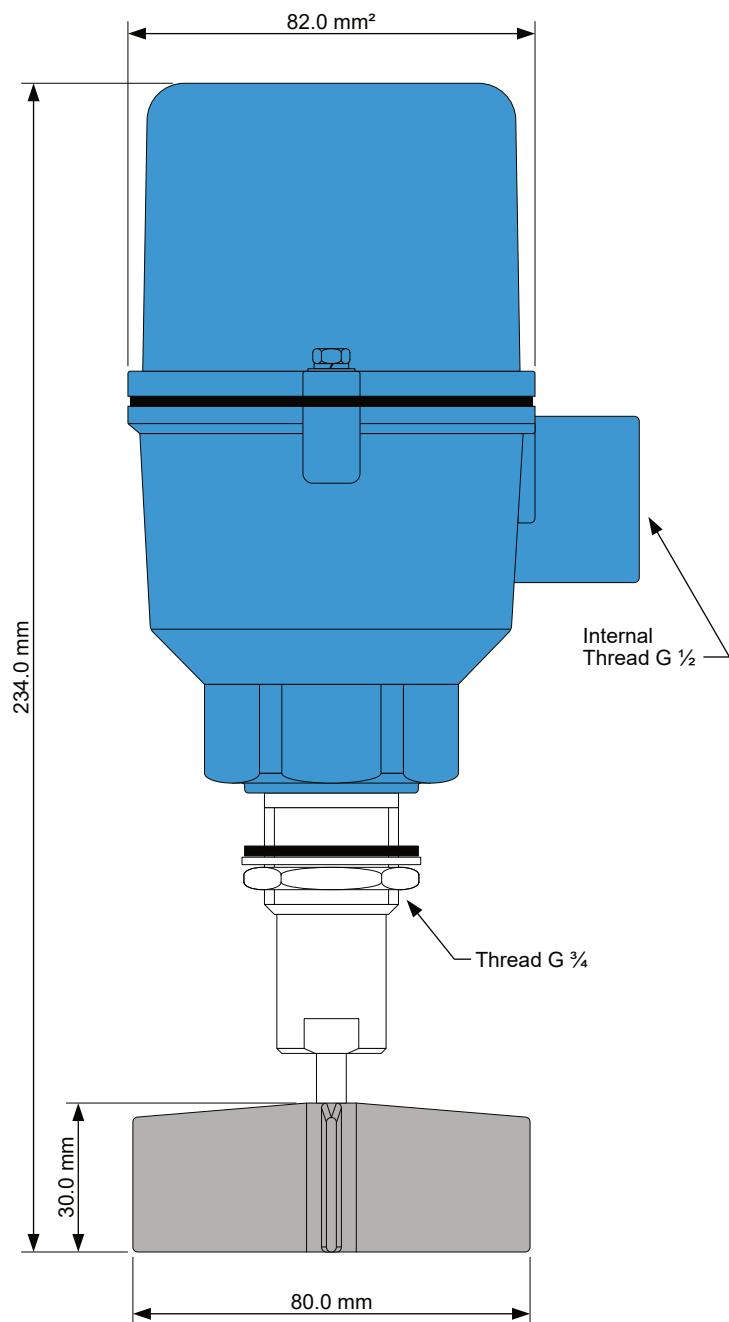
The default setting is "B". Use "A", if there is a light vibration on the hopper. Use "C" or "D", if the load is small:

	Torque	Type of material
A	50.0 N.m	For heavy & sticky materials or areas with light vibration
B	38.0 N.m	Standard
C	30.9 N.m	For light or fine materials
D	26.0 N.m	

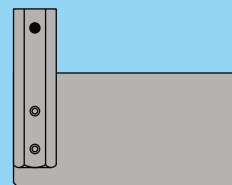
Specifications:

Tank or container	Open type
Power supply	24, 110 & 240 VAC, 50/60 Hz
Power consumption	1.5 VA
Motor rotation	1 rpm (50 Hz) or 1.2 rpm (60 Hz)
Relay contact (resistive)	1 SPDT, 250V 3A AC/30V 3A DC
Materials:	
Housing	ADC12 & ABS
Mounting section	Brass (galvanised)
Spindle	304 stainless steel
Paddle	Poly-carbonate 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	G½" cable gland
Impact resistance	35G Max.
Max. cable pull load	196N
Max. paddle pull load	588N
Max. load (at paddle tip)	125N
Country of origin	Japan

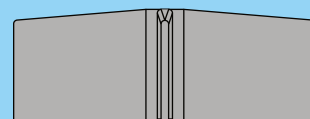
Dimensions (mm):



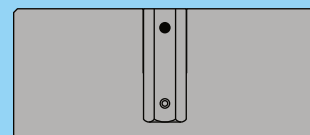
Paddle selection:



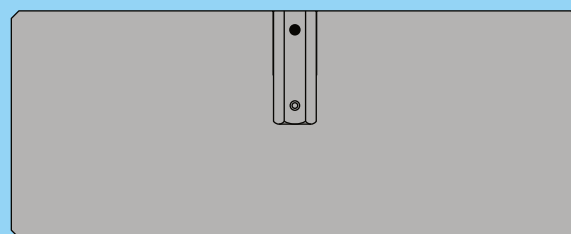
Single vane paddle
304 stainless steel, 60 x 30mm
for material densities > 2.0 g/cm³



Four vane paddle (supplied as standard).
Poly-carbonate, 80 x 30mm
for material densities > 0.3 g/cm³



Two vane paddle
304 stainless steel, 80 x 35mm
for material densities > 0.3 g/cm³



Special two vane paddle
304 stainless steel, 150 x 60mm
for material densities 0.02 to 0.2 g/cm³

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