

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI-620 014

Fuel Systems/PE(FB)

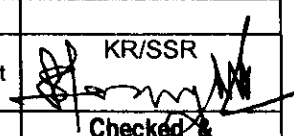


Title Sheet

Specification for
Zero Speed Switch

Specification Number: GF-364

Revision No. : 01

01	12-05-2006	Scope of supply altered. Voltage rating 110V AC was 110V AC or 230 V AC. Sheet No. 05/05 added.	KR/SSR 
Rev. No.	Rev. Date	Revision statement	Checked & Approved

	Name	Signature	Date
Prepared	S.Manivannan	-Sd-	18-02-2006
Checked	K.Rajmohan	-Sd-	18-02-2006
Approved	S.Selvaraju	-Sd-	18-02-2006





Specification for
Zero Speed Switch
(For 24" Dual Belt Gravimetric Feeder)

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- 1.0 Scope of supply** :The Zero Speed Switch consists of
(a) Sensor with 2LEDs & 2M cable (3 wire integrated), b) Control unit/Barrier mounted inside a (c) local control box (IP65 protection) suitable to receive 110VAC power input with MCB and (d) 4way TB. (Refer Sketch-Sheet No. 4/5 & 5/5)
- 2.0 No. off / Feeder** :One set
- 3.0 Application** :To be used to ascertain the rotation of idle roller of 24" Dual Belt Gravimetric feeder
- 4.0 Technical requirement:**
- 4.1 The Zero Speed switch is of non contact type.
- 4.2 A suitable non-contact sensor shall be provided to pick up the rotation of the idle roller shaft and provide a potential free contact output on deduction of zero speed.
- 4.3 Enclosure protection :IP55
- 4.4 Operating voltage :110VAC
- 4.5 Speed range : 50 to 80 rpm (Selectable)
- 4.6 Time delay :1 to 60 seconds adjustable
- 4.7 LED :One LED for magnetic pulses & the other LED for the relay status. The pulse LED is near to the Magnetic disc and the relay LED is near to the cable.
- 4.8 Distance between magnetic disc & the sensing head :Vendor to specify
- 4.9 Operation mode :Fail safe
- 4.10 Indications :Power ON, Rotating.
- 4.11 Wire Colour code :Vendor to Specify
- 4.12 Terminal block :To ease the external wiring.
- 4.13 Relay operation :Fail safe mode.
- 4.14 Sensor housing :Aluminium (Pl. refer sketch for a typical housing)
- 4.15 Contact out put : 1NO + 1NC
- 5.0 General**
- 5.1 Ambient temperature : 70°C.
- 5.2 Environment :Coal dust
- 5.3 Standard routine and type test certificates shall be submitted along with the each supplies.
- 5.4 Marking :In addition to manufacture's standard name plate, Name tags carrying item name and BHEL material code shall be firmly affixed .

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- 5.5. **Packing** :All openings firmly capped; individual sealed in polythene covers and then in thick cardboard boxes with thermal Cole or equivalent wrapping; to be seaworthy packed in wooden boxes with suitable pads and under covers, well protected against ingress of water and transit damages.
- 6.0 **Inward inspection** :Verify the nametags, name plate details routine and type test certificates ; Check also mounting dimensions with reference drawing.
- 7.0 **Documents to be submitted @** :1)GA drawing with bill of material.
BOM shall contain material specification, quantity, & weight;
2)Catalogues
3)List of O&M spares.
4)O&M Manual.

@ Two sets along with offer
Five sets after placement of P.O.

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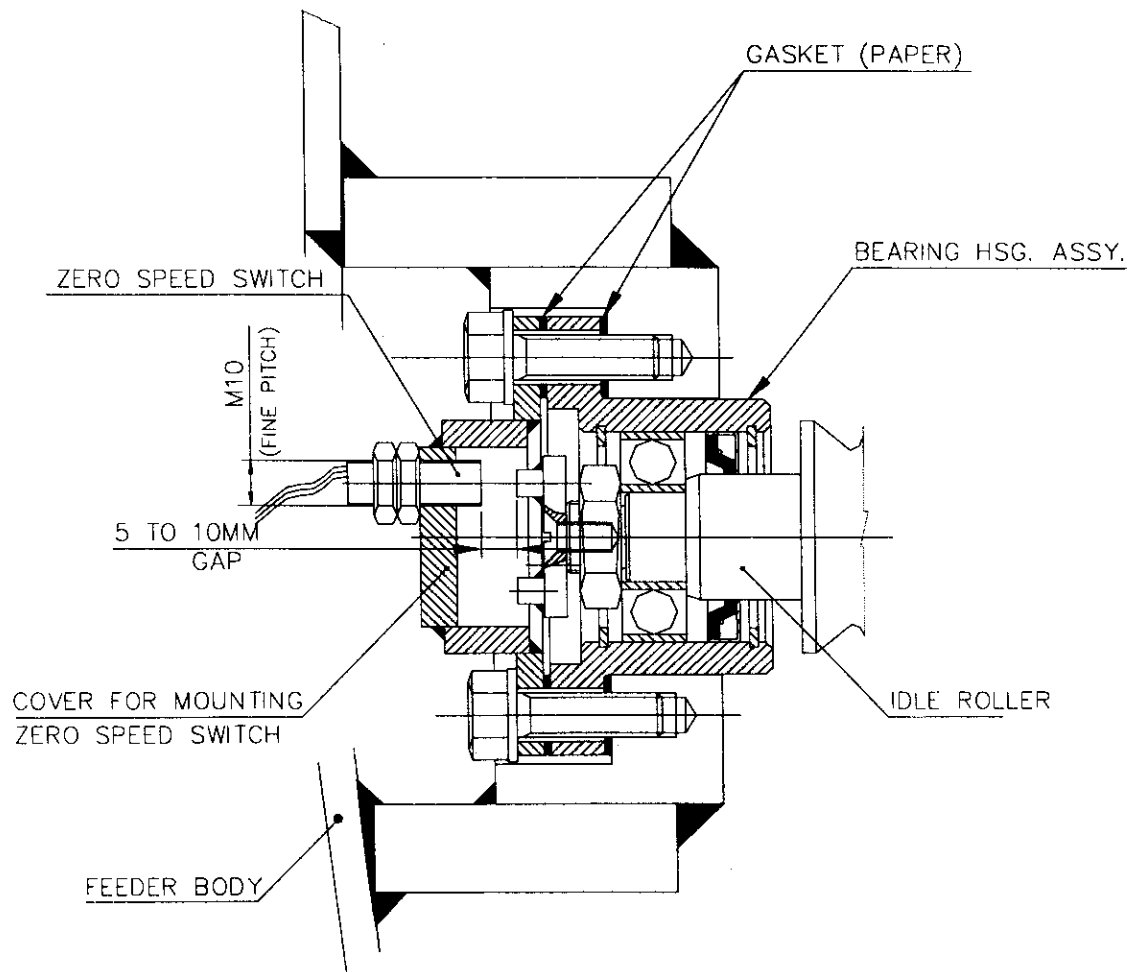


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ZERO SPEED SWITCH (Typical)
(FOR 24" Dual belt gravimetric feeder)



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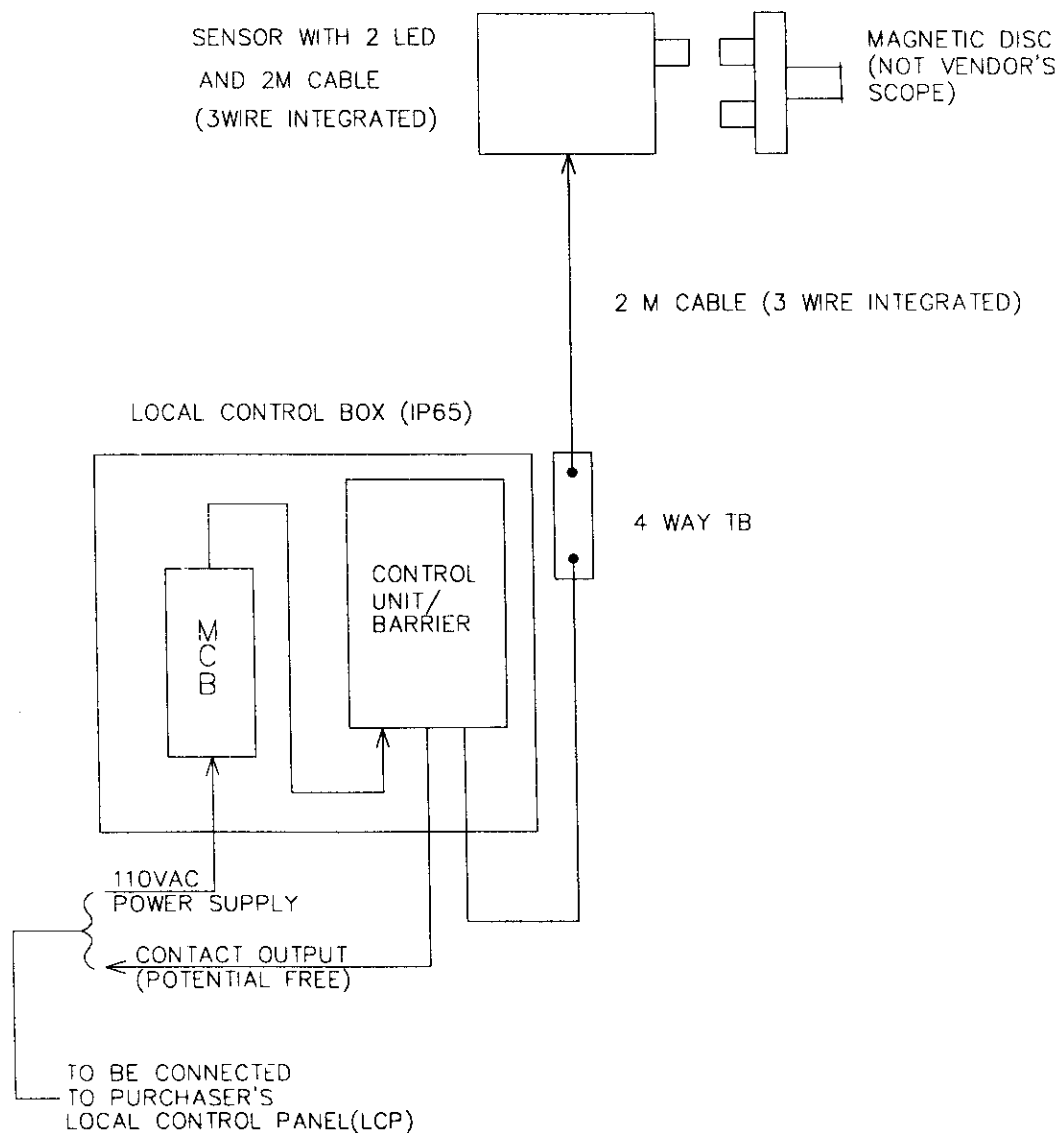


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SCHEMATIC DIAGRAM OF ZERO SPEED SWITCH



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