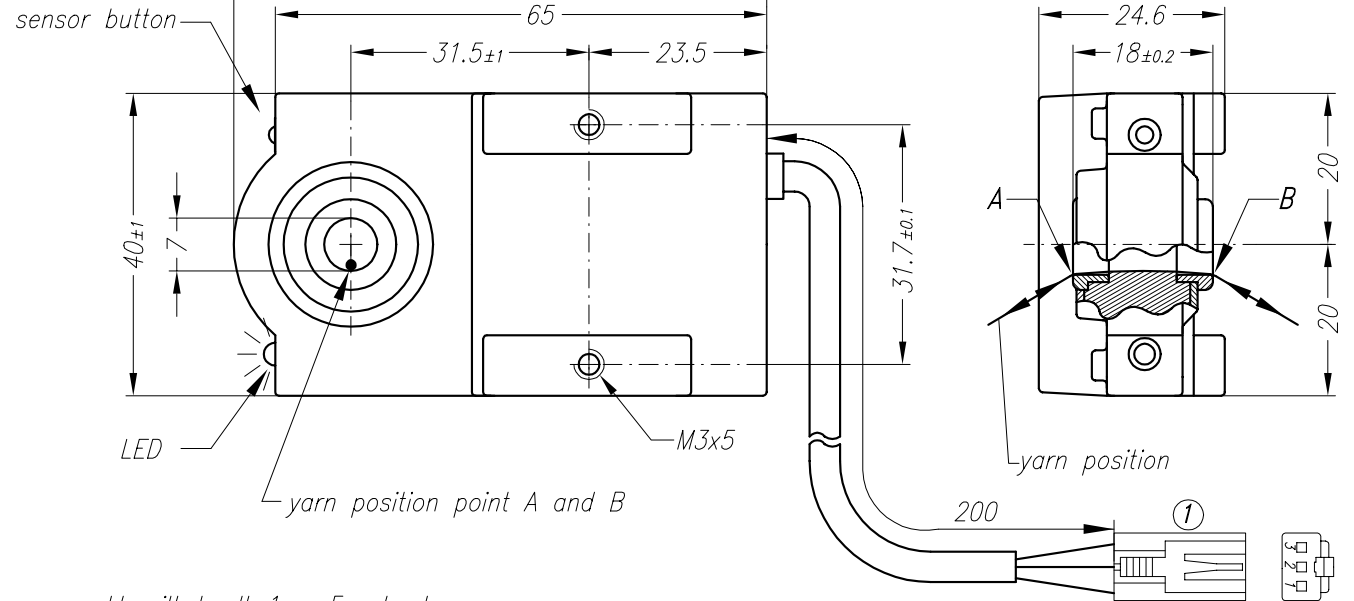


**Dimensions:**

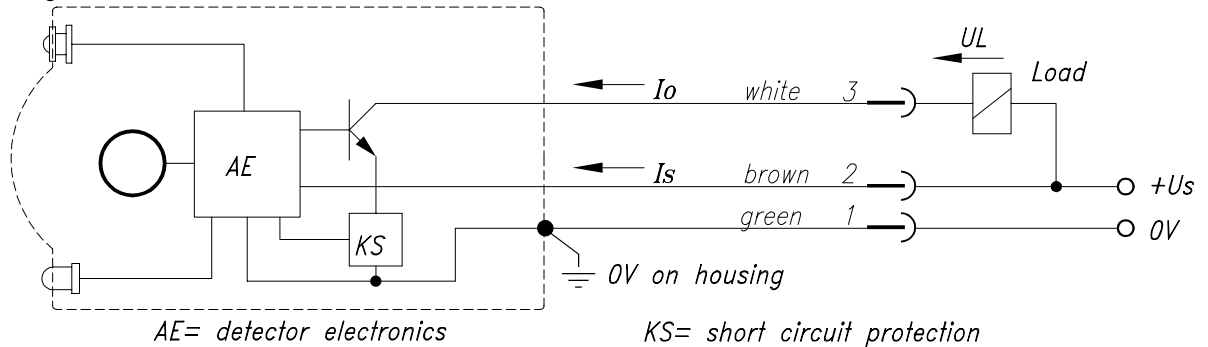


cable with length 1m and opposite part part no. 910300

Female plug:  
Housing: Honda/3R/FKP-3F/224210  
Contact-socket: FKP-F 114/231250

① Male plug: Housing: Honda/3P/FKP-3MK/224209  
Contact-pin: FKP-M 114/231200

**Connection diagram: without free wheeling diode!**



AE= detector electronics

KS= short circuit protection

**Data:**

- Application** : For staple fibre yarns and continuous filaments at speeds higher than 2m/s (120m/min). The detector is working independent of the yarn titer, as long as the yarn is touching the yarn guide at point A and B and has a small deflection. A and B must be on same angle of circular ceramic.
- Supply voltage  $U_s$**  : 24VDC±25%; max. Ripple 100Hz: 20% max. Ripple 300Hz: 20%
- Supply current  $I_s$**  : max. 12mA
- Switching ON delay  $t_{PON}$**  : Switching ON will result only during the uninterrupted running of the yarn and during the time  $t_{TON}$ .
- Reaction time  $t_R$**  :  $t_R$  = approx. 0.4s (after yarn break)
- Current  $I_o$**  : yarn is running:  $I_o = 0A$   
yarn is not running, after reaction time  $t_R$ :  $I_o = \text{max. } 0.5A \text{ } 100\%ED$
- Load voltage  $U_L$**  :  $U_L = U_s - 2V$
- Function of the LED** : is illuminated if detector is in "OFF" position.
- Function of sensor button** : By touching the sensor button the detector is switched in the "OFF" position, this is indicated by the illuminated LED.
- Switch "ON" delay  $t_{TON}$**  : After the yarn has been running uninterruptedly during the time  $t_{TON}$  = approx. 6s the detector is switched ON automatically; LED turns OFF.
- Delay time  $t_D$ ; after the yarn begins to run:**  $t_D \text{ max. } = 1s$ .
- Mounting** : Yarn detector must be properly grounded to the machine body by means of the mounting bracket. (Minimum cross-section of mounting bracket: 20mm x 1.5mm).
- Surface temperature** : During operation the sensor surface temperature shall not exceed 70°C.

**Capacitive Yarn Detector 8022G-586A0**

HebCon GmbH / Switzerland

designer	date: 31.01.2007	name: F. Ackermann
drawn	date: 31.01.2007	name: Mo.Aebi/Aeb
european projection 	article number	status
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