Yarn break sensor 16460-16468

with NPN open collector output

General

The yarn break sensor 16460–16468 is working on the piezoelectrical principle. The yarn movement is transferred into an electric signal, which is amplified and evaluated within the sensor.

The sensor has got an NPN open collector output.

A LED (light emitting diode) indicates the yarn movement.

Function and description

Power supply	24 VDC (16–33 VDC)
Current consumption	25 mA
Output	NPN Open collector.
Sensitivity setting	with a potentiometer on the yarn sensor.

The movement of the yarn is best detected if the yarn angle is 10–15° through the eyelet.

To set the sensitivity, turn the potentiometer clockwise to the end position (maximum sensitivity). Let the machine run and turn the potentiometer slowly anti-clockwise until the yarn sensor stops the machine although there is no yarn fault. Then turn the potentiometer approximately 45° clockwise.

If there are still false stops, increase the setting by another 20° clockwise.

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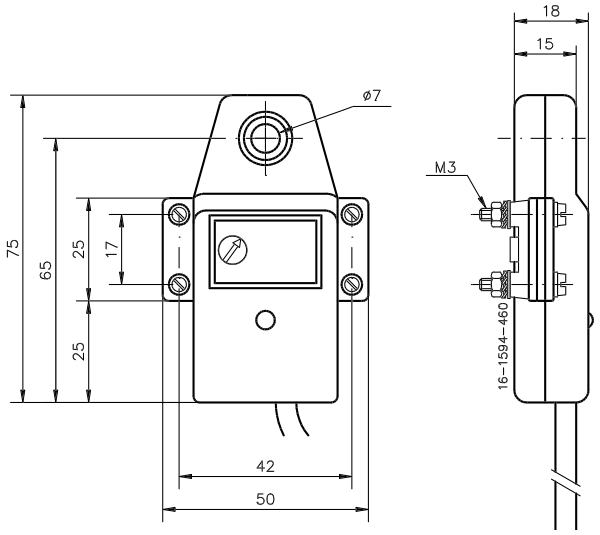
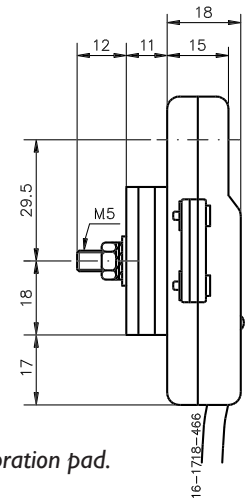
Dimensions mm

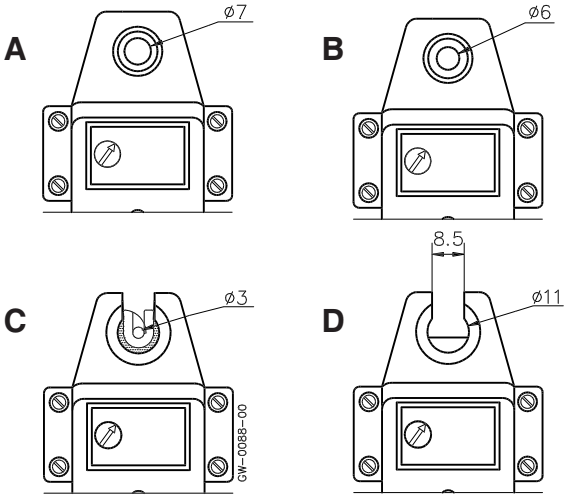


Notes



With antivibration pad.

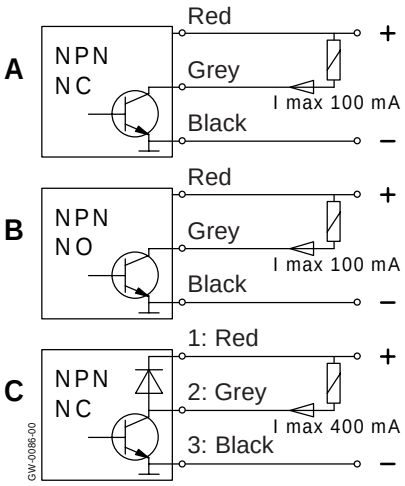
Eyelet

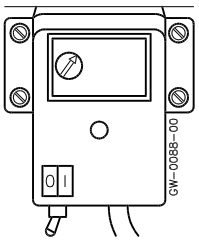


Connection, output

***NC** = Output is active low when the yarn is **not** moving and open when the yarn is moving.*

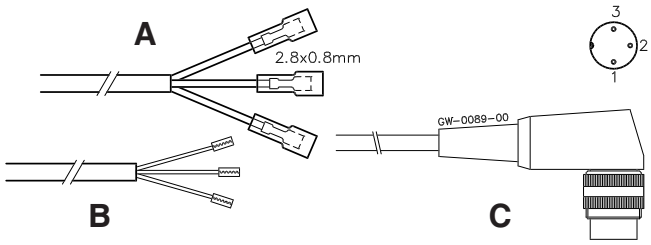
***NO** = Output is open when the yarn is **not** moving and active low when the yarn is moving.*





ON/OFF switch

Cable



Models

Art.no.	Eyelet	Output I max	LED	ON/OFF switch	Cable	Reaction time	Notes
16460	A	A= NC 100 mA	Red		A + 0,8 m	5 ms	
16461	B	B= NO 100 mA	Green		B + 2,0 m	10 ms	
16462	B	C= NC 400 mA	Red		B + 2,0 m	30 ms	
16463	C	C= NC 400 mA	Red	Yes	C + 0,3 m	30 ms	
16464	D	C= NC 400 mA	Red	Yes	B + 1,2 m	30 ms	
16465	D	C= NC 400 mA	Red	Yes	C + 0,3 m	30 ms	
16466	A	B= NO 100 mA	Green		B + 3,5 m	5 ms	Antivibration pad
16467	B	C= NC 400 mA	Red		B + 2,0 m	10 ms	
16468	B	C= NC 400 mA	Red		B + 2,0 m	30 ms	The cover has no DC connection to ground.