

**Application**

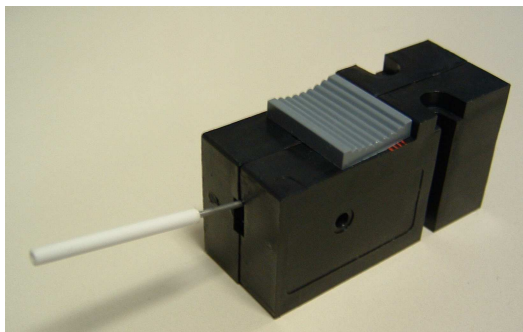
The **XC2-F** is a **low cost electromechanical yarn break detector**.

**MAIN FUNCTION: To control the presence of any kind of yarns.**

When the yarn breaks, the **XC2-F** will act as a switch off in a circuit and stop a position or a machine. It is generally used on winders and creels, because of it is small sized and easy fastening detector. For many years, the **XC2-F** series have been installed on many builder machines.

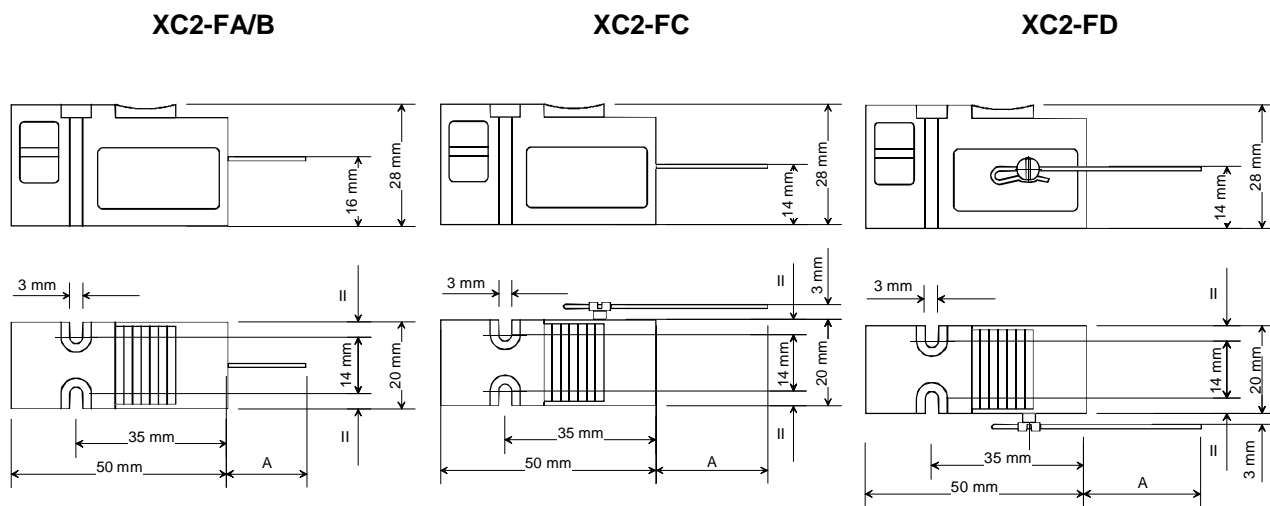
**PRINCIPLE :** The yarn pushes on a feeler. When the strength resulting from the running yarn is sufficient, the feeler is on balance. When the yarn breaks, the feeler acts as an electrical contact that gives information to the machine.

**ELECTRICAL PROTECTION :** The **XC2-F** series have been designed to be in accordance with the standards. There are protected against Electromagnetic influences.



**Characteristics :**

- Maximum switching voltage : 250 V AC
- Strength couple is tuned at works
- Connection : 6,3 or 2,8 mm Faston connector
- Feeler in ceramics or chrome plated
- Box in polyamide
- Can be delivered on a sock with 2 yarn guides
- Tested up to 1 million breaks

**Dimensions (mm)**


A = Useful length of feeler

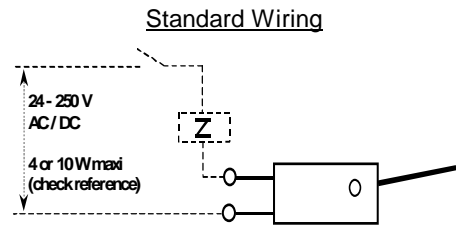


**XC2-F mounting**

- 1 - Without sock sensor / mounting through 2 M3 type screws.
- 2 - With sock sensor / 2 mounting ways : 2 M3 type screws or by hooking.

**USE PRECAUTIONS :**

- Sensors have to be located at a distance of minimum 10 mm away from a magnetic frame.
- Sensors have to be located at a distance of minimum 20 mm one from the other one to avoid magnetic influence.



**Characteristic codification**

XC2-F		X	X	X	X
<b>Feeler position</b>					
	Middle	A/B			
	Left side	C			
	Right side	D			
<b>Breaking capacity / Switch / Strength *</b>					
4 W	NC switch	0,5 cN ± 0,05	1		
		1,1 cN ± 0,10	2		
	NO switch (Excepted XC2-FC)	0,5 cN ± 0,05	3		
		1,1 cN ± 0,10	4		
10 W	NC switch	0,5 cN ± 0,05	5		
		1,1 cN ± 0,10	6		
	NO switch (Excepted XC2-FC)	0,5 cN ± 0,05	7		
		1,1 cN ± 0,10	8		
<b>Sock</b>					
Without (obligatory for XC2-FC et XC2-FD)				5	
Screwable sock (only XC2-FA/B)				6	
Hookable sock (only XC2-FA/B)				7	
<b>Kind of middle feeler (XC2-FA/B)</b>					
<b>Surface</b>	<b>Length A</b>				
Chrome plated	18 mm				5
	34 mm				503
Ceramics 17 mm	19 mm				6
	35 mm				603
	22 mm				608
	24 mm				6016
Ceramics 25 mm	33,5 mm				603
			<b>Spécif. : 326 210</b>		
<b>Kind of left and right feeler (XC2-FC / XC2-FD)</b>					
<b>Surface</b>	<b>Length A</b>				
Chrome plated	26 mm				5
	27 mm				6 ou 603
Ceramics 17 mm	119 mm				601
	39 mm				602

\* Strength are given in cN (centiNewton or gramme), measured on the feeler at 8 mm of the box.

**Example**

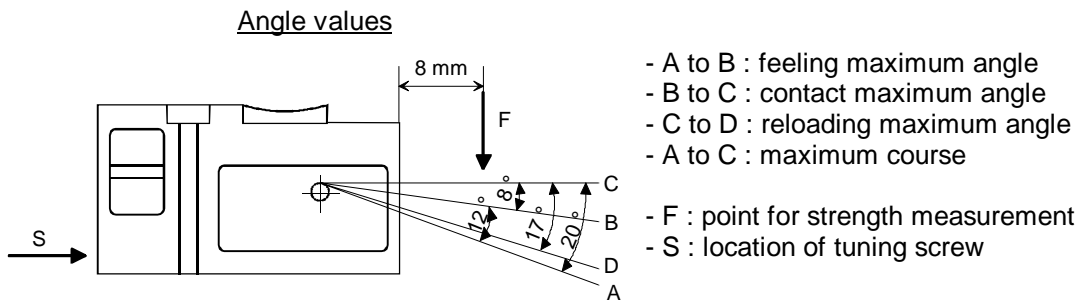
**XC2-FB255 :**

- B : with middle feeler
- 2 : strength 1,1 g ± 0,10
- 5 : without sock
- 5 : with chrome plated feeler, 18 mm length

**Electrical characteristics**

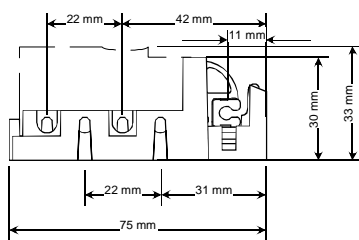
Parameters	Conditions	Min	Typ	Max
Maximum breaking capacity (W)	XC2-FX1 to 4XX	-	-	4
	XC2-FX5 to 8XX	-	-	10
Maximum switching voltage (V)		-	-	250
Maximum current switching capacity (A)	XC2-FX1 to 4XX	-	-	0,25
	XC2-FX5 to 8XX	-	-	0,40
Temperature (°C)	Storage	-40	-	+90
	Operation	-15	-	+60
Relative humidity		-	90%	-

**Operating**

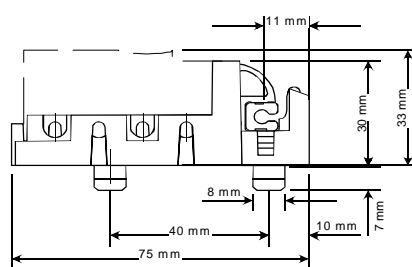


**XC2-F Accessories**

XC2-FA010 Screwable sock



XC2-FA020 Hookable sock



XC2-FA006 Ceramic tube



XC2-FA012 Guide

XC2-FA010 Screwable sock

