FC3 series

Dual beams photoelectrics slot sensor
for sensor edge detection

features

- **Dual beams photoelectric slot sensor**
- **RIAC output**
- **Light on/Dark on selectable by polarity inversion**
- **Approvals: CE**

web contents

- **Application notes**
- **Photos**
- **Catalogue / Manuals**

ordering system

description	model
Dual beams photoelectric slot sensor for edge detection, Triac output, Output state Light ON/Dark ON selectable by polarity inversion.	FC3
Dual beams photoelectric slot sensor for edge detection, MOSFET output, Output state Light ON/Dark ON 24 Vdc/ac	FC3/A

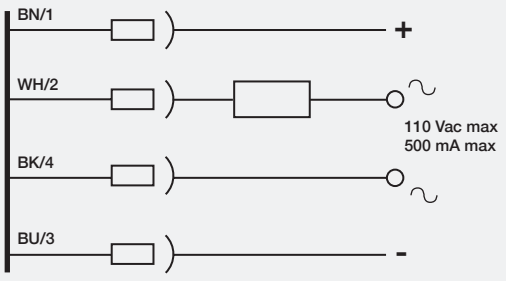
technical specification

	dual beams photoelectric slot sensor for edge detection FC3	dual beams photoelectric slot sensor for edge detection FC3/A
optical axial distance	6,8 mm	
optics diameter	3 mm	
operating voltage	10...30 Vdc	
ripple	< 10 %	
no-load supply current	≤ 30 mA	
load current	max 500 mA (V = 110 Vac)	max 500 mA (V = 30 Vdc / 24 Vac)
leakage current	≤ 250 µA (V = 250 V max)	250 µA (V = 30 V max)
inrush current	5 A (T = 10 µsec)	
output voltage drop	≤ 1,2 V max. (500 mA)	
output type	TRIAC, L0/D0 selectable	MOSFET, L0/D0 selectable
blocking voltage / operating voltage	± 400 V / 110 Vac eff.	±40 / 30 Vdc - 24 Vac eff.
zero-voltage switching	●	-
emission	infrared (880 nm)	
sampling frequency	3,7 kHz	
switching frequency	25 Hz	
supply electrical protection	transient	
EMC	in conformity with the EMC Directive according to EN 60947-5-2	
protection degree	IP64 (EN60529) [1]	
LED indicators	green (supply) - red (output)	
housing material	PCB	
weight (approximate)	122 g	

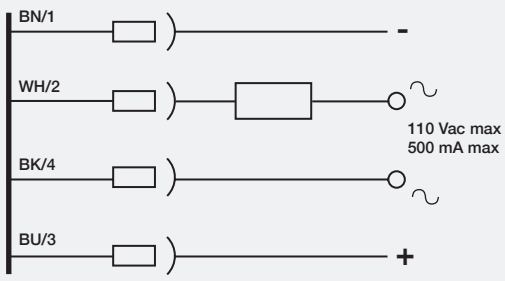
[1] Protection guaranteed only with plug cable well mounted

electrical diagrams of the connections

FC3 dark-On pulse



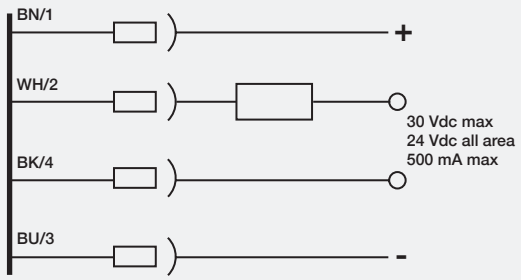
FC3 ligh-On pulse

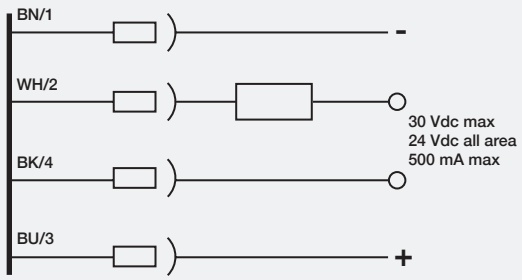


BN	brown
BU	blue
BK	black
WH	white
PK	pink
GY	gray

electrical diagrams of the connections

FC3/A dark-On pulse	FC3/A ligh-On pulse





BN	brown
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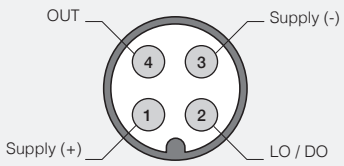
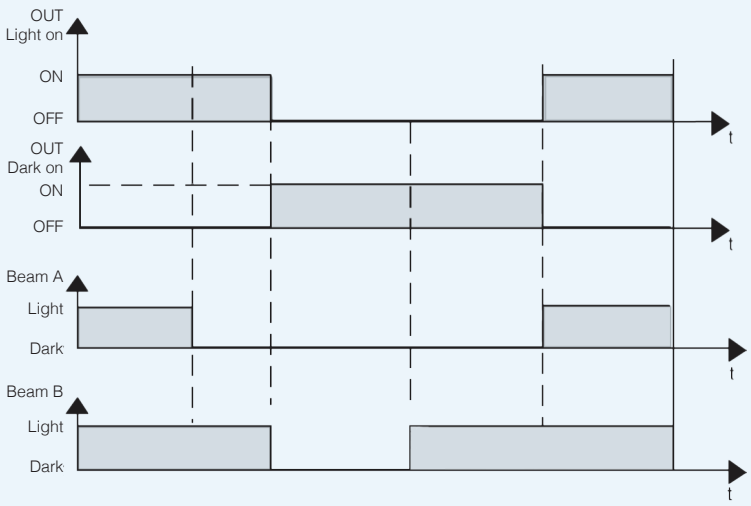
plug



logic diagram



Considering A as the outer ray and B as the inner ray referring to the fork input and the DARK ON operation mode, the output is activated when both A and B are intercepted by the edge and is deactived when both A and B are free. The histeresys is so equal to the optical interaxes 6 mm.

A: outer ray referring to the fork input

B: inner ray referring to the fork input

dimensions (mm)

FC3/**-**