



Fork sensors UF, UFnext

UFN3-70B413



Model Name > **UFN3-70B413**
Part No. > **6049678**



At a glance

- Detection of transparent, opaque or printed labels
- Unaffected by metallic foils and labels
- Fast response time of 250 µs
- Simple and accurate adjustment via "+" / "-" -buttons or teach-in
- Rugged, IP 65 aluminum housing

Your benefits

- Reliable label detection, regardless if labels are transparent, opaque or have a printed design, ensuring greater flexibility with one sensor
- Fast response times enable precise detection - even at high web speeds
- The aluminum housing meets all requirements for use in harsh industrial conditions
- Setting the switching threshold using the +/- push buttons or teach-in
- Ultrasonic technology prevents false detection, which may be caused by ambient light or shiny surfaces



Features

Functional principle:	Ultrasonic detection principle
Fork width:	3 mm
Fork depth:	69 mm
MDO ¹⁾ ; ²⁾ :	Size of labels: 2 mm Gap between labels: 2 mm
Label detection:	✓
Adjustment:	Dynamic teach-in Static teach-in
Output function:	Light/darkswitching, selectable via button

¹⁾ Minimum detectable object ²⁾ Depends on the label thickness

Mechanics/electronics

Supply voltage V_s ¹⁾ :	DC 10 V ... 30 V
Ripple ²⁾ :	< 10 %
Power consumption ³⁾ :	40 mA
Switching frequency ⁴⁾ :	1,500 Hz
Response time ⁵⁾ :	250 µs
Output type:	NPN: HIGH = approx. V_s / LOW ≤ 2 V PNP: HIGH = $V_s - \leq 2$ V / LOW approx. 0 V

1) Limit values, reverse-polarity protected, operation in short-circuit protected network, max. 8 A 2) May not exceed or fall short of V_S tolerances 3) Without load 4)
With light/dark ratio 1:1, typical, dependent on material and speed 5) Signal transit time with resistive load 6) Output current minimal 0.03 mA 7) Reference voltage DC
50 V

Ambient temperature ¹⁾ :	Operation: 5 ... 55 °C Storage: -20 ... 70 °C
Shock load:	According to EN 60068-2-27
EMC:	EN 60947-5-2 ²⁾

Technical drawing showing the front and side views of a rectangular component with dimensions in mm and inches.

Front View Dimensions:

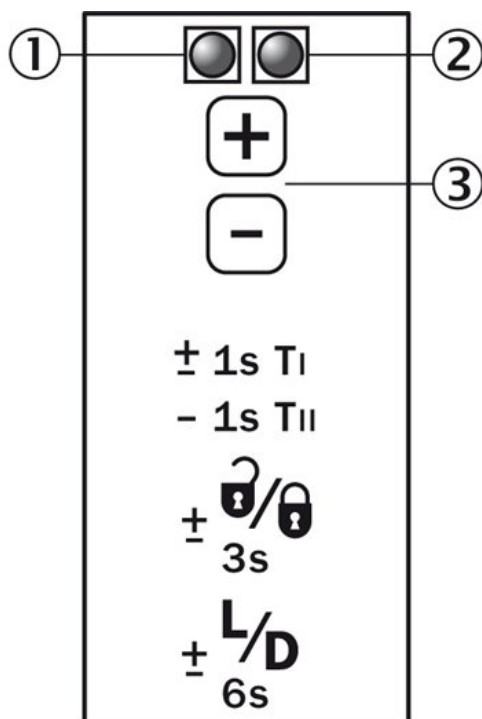
- Overall width: 69 (2.72)
- Overall height: 18 (0.71)
- Distance from left edge to center of mounting hole: 6.5 (0.26)
- Distance between mounting holes: 10 (0.39)
- Distance from center of mounting hole to right edge: 4.2 (0.17)

Side View Dimensions:

- Overall depth: 41 (1.61)
- Distance from front face to center of mounting hole: 7 (0.28)
- Distance from center of mounting hole to back face: 3 (0.12)
- Distance from front face to center of mounting hole (alternative): 14 (0.55)
- Distance from center of mounting hole to back face (alternative): 22.5 (0.89)
- Distance from front face to center of mounting hole (alternative): 8 (0.31)
- Distance from center of mounting hole to back face (alternative): 22 (0.87)
- Distance from front face to center of mounting hole (alternative): 5 (0.20)
- Distance from center of mounting hole to back face (alternative): 2 (0.08)
- Distance from front face to center of mounting hole (alternative): 7 (0.28)
- Distance from center of mounting hole to back face (alternative): 11 (0.43)

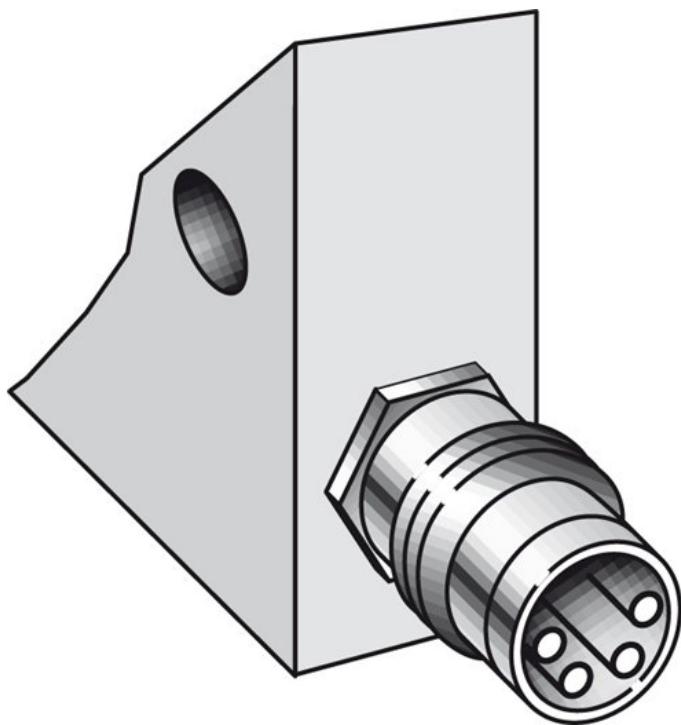
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Adjustments

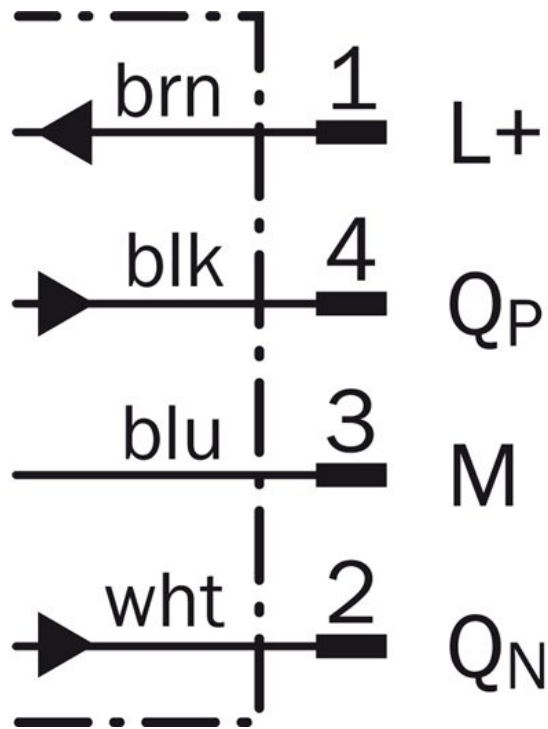


- |1| Function signal indicator (yellow), switching output
- |2| Function indicator (red)
- |3| "+" "-" buttons and function button

Connection type



Connection diagram



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