

Fork Sensors WF

WF5-40B416



Nazwa modelu > **WF5-40B416**

Numer części > **6028451**

At a glance

- Infrared light source
- Adjustment via teach-in or manually via +/- buttons
- Light/dark switching output
- PNP and NPN switching output
- Fast response time (max. 100 µs)
- 21 different models with different fork widths and depths
- Rugged, IP 65 aluminum housing

Your benefits

- Fast response time and fine resolution ensure reliable detection even at high speeds
- Infrared light source provides excellent ambient light immunity
- User friendly setting via teach-in or +/- button
- A wide range of different fork sizes enables flexible installation
- The aluminum housing meets all requirements for use in harsh industrial conditions



!Features!

Sposób działania:	Optical detection principle
Fork width:	5 mm
Fork depth:	42 mm
MDO:	0,2 mm (Minimum detectable object)
Label detection:	✓
Nadajnik światła:	LED, infrared modulated
Rodzaj światła:	Infrared

!Mechanics/electronics!

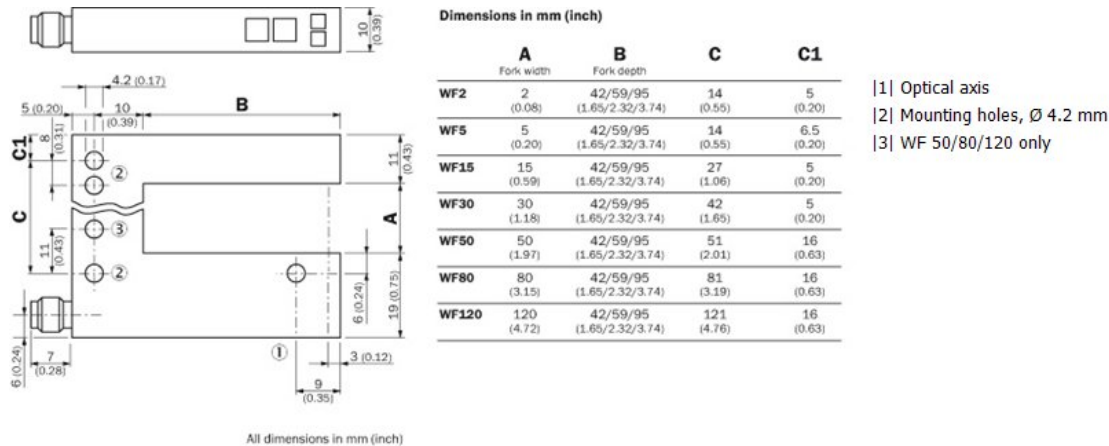
Napięcie zasilania VS:	10 V ... 30 V
Tętnienia resztkowe:	< 10 % (May not exceed or fall short of V_S tolerances)
Pobór prądu:	40 mA (bez obciążenia)
Wyjście przełączające:	NPN: HIGH = approx. VS / LOW = < 2 V PNP: HIGH = VS - < 2 V / LOW approx. 0 V
Tryb przełączania:	PNP/NPN
Switching frequency:	10 kHz (With light/dark ratio 1:1, no time delay)
Czas reakcji:	100 µs (Signal transit time with resistive load)
Stability of response time:	± 20 µs

Tryb przełączania:	Light-/dark-switching, selectable via button
Initialisation time:	100 ms
Sposób przyłączenia:	Złącze M8, 4-pinowe
Ambient light safety:	incandescent lamp: 5.000 lx Sunlight: 10.000 lx
VDE protection class:	III (Reference voltage 50 V DC)
Układ zabezpieczenia:	A = VS connections reverse-polarity protected Wyjście Q zabezpieczone przed zwarciami Tłumienie interferencji
Rodzaj zabezpieczenia:	IP 65
Ciężar:	ca. 36 g ... 160 g
Housing material:	ABS
Output current I _{max} :	100 mA
Teach-in:	1

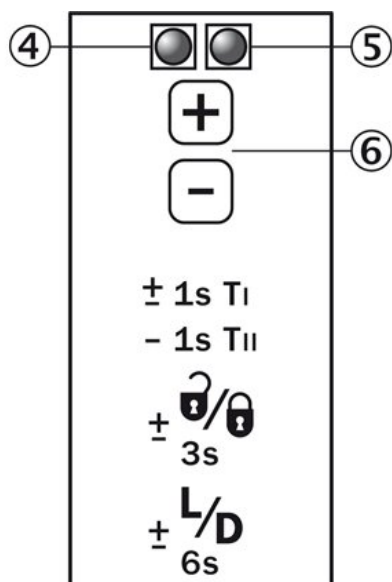
!Ambient data!

Ambient temperature:	Operation: -20 ... 60 °C Storage area: -30 ... 80 °C (Do not bend below 0 °C)
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Rysunek techniczny

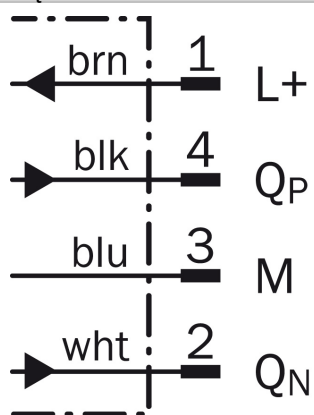


Adjustments



- |4| Function indicator (red)
- |5| Function indicator (yellow), switching output
- |6| "+"/"-" buttons and function button

Schemat połączenia



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