



Czujniki widelkowe WFM

WFM30-40N311



Nazwa modelu > [WFM30-40N311](#)

Numer części > [6037822](#)



Produkt może różnić się od ilustracji

At a glance

- Highly visible red emitted light
- No setup, out-of-the-box operation
- 360° output indicator
- 5 fork sizes: maximum depth 120 mm, maximum width 180 mm
- Rugged, IP 67 aluminum housing

Your benefits

- Fixed housings guarantee a high level of operational safety with simple commissioning
- A visible red light enables easy alignment and fast adjustment
- The 360-degree yellow output indicator makes continual process control possible
- A wide range of different fork sizes increases installation flexibility
- The aluminum housing meets all requirements for use in harsh industrial conditions



Cechy

Sposób działania:	Optical detection principle
Fork width:	30 mm
Fork depth:	42 mm
Label detection:	-
Nadajnik światła:	LED
Rodzaj światła:	Widzialne światło czerwone
Nastawa:	None
Tryb przełączania:	Przełączanie na jasnym
Housing design (light emission):	Fork shaped
Minimum detectable object (MDO):	0,8 mm

Mechanika/elektronika

Tętnienia resztkowe ¹⁾ :	< 10 %
Pobór prądu ²⁾ :	< 20 mA
Switching frequency ³⁾ :	4 kHz
Czas reakcji ⁴⁾ :	125 µs
Stability of response time:	± 15 µs
Wyjście przełączające:	NPN: HIGH = approx. VS/LOW ≤ 1.5 V PNP: HIGH = VS - ≤ 1.5 V/LOW = 0 V
Tryb przełączania:	NPN
Output current I _{max} ..:	100 mA

- Initialization time:

Sposób przyłączenia:

Klasa ochronności⁵⁾:

Układ zabezpieczenia:

Rodzaj zabezpieczenia:

Ciężar:

Housing material:

Napięcie zasilania:

Bezpieczna jasność otoczenia:

Fieldbus interface:
- 140 ms

Connector M8, 3-pin

III

Vs connections reverse-polarity protected

Wyjście Q zabezpieczone przed zwarciami

Tłumienie interferencji

IP 67

Ca. 80 g ... 190 g⁶⁾

Aluminium, Metal

10 V DC ... 30 V DC⁷⁾

Sunlight: ≤ 10.000 klx

-
- 1) May not exceed or fall short of V_S tolerances

2) Bez obciążenia

3) With light/dark ratio 1:1

4) Signal transit time with resistive load

5) Reference voltage DC 50 V

6)

7) Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A

Dane otoczenia

- Obciążenie uderzeniowe:

UL File No.:

Ambient operating temperature:

Ambient storage temperature:
- According to EN 60068-2-27

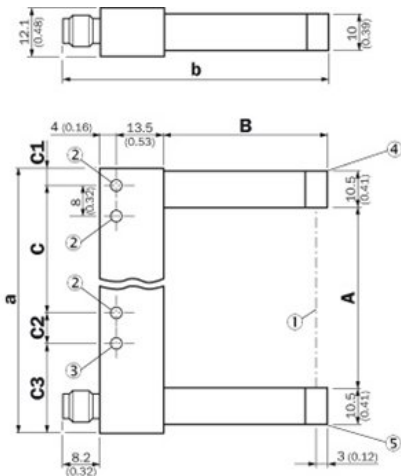
NRKH.E191603 & NRKH7.E191603

-10 °C ... +60 °C¹⁾

-40 °C ... +80 °C

1) Do not bend below 0 °C

Rysunek techniczny



Dimensions in mm (inch)

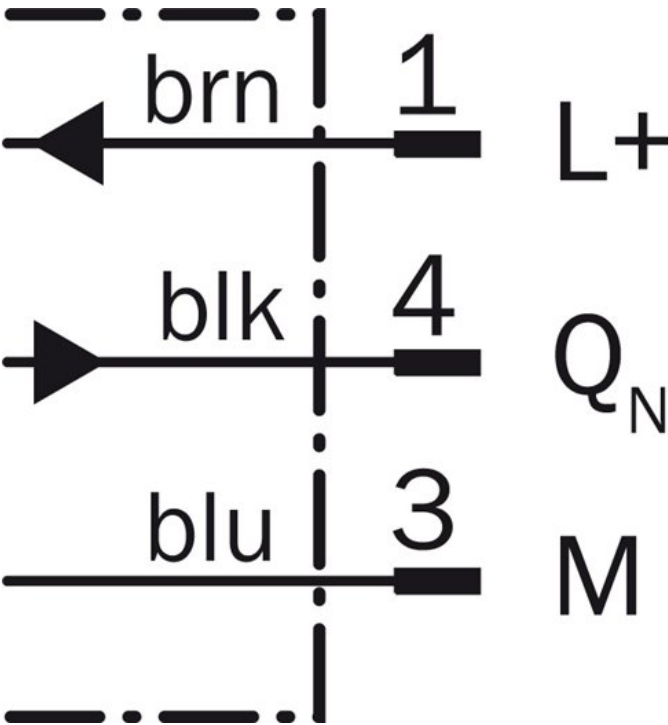
	A	B	C	C1
	Fork width	Fork depth		
WFM30	30 (1.18)	42 (1.65)	30 (1.18)	6.5 (0.26)
WFM50	50 (1.97)	60 (2.36)	40 (1.57)	6.5 (0.26)
WFM80	80 (3.15)	60 (2.36)	70 (2.76)	6.5 (0.26)
WFM120	120 (4.72)	124.3 (4.89)	100 (3.94)	17 (0.67)
WFM180	180 (7.09)	124.3 (4.89)	152 (5.98)	22 (0.87)

	C2	C3	a	b
WFM30	- (-)	- (-)	54 (2.13)	67.7 (2.67)
WFM50	8 (0.31)	19.5 (0.77)	74 (2.91)	85.7 (3.37)
WFM80	8 (0.31)	19.5 (0.77)	104 (4.09)	85.7 (3.37)
WFM120	10 (0.39)	17 (0.67)	144 (5.67)	150.2 (5.91)
WFM180	8 (0.31)	22 (0.87)	204 (8.03)	150.2 (5.91)

- |1| Optical axis
- |2| Mounting hole, Ø 4.3 mm
- |3| WFM50/80/120/180
- |4| Transmitted light (red)
- |5| Function signal indicator (yellow), switching output

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Connection diagram



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