



Czujniki widelkowe WFM

WFM120-120N311



Nazwa modelu > **WFM120-120N311**

Numer części > **6037835**



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:	120 mm
Fork depth:	124 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:	140 ms
Sposób przyłączenia:	Connector M8, 3-pin
Klasa ochronności ⁵⁾ :	III
Układ zabezpieczenia:	Vs connections reverse-polarity protected Wyjście Q zabezpieczone przed zwarciami Tłumienie interferencji
Rodzaj zabezpieczenia:	IP 67
Ciężar:	Ca. 80 g ... 190 g ⁶⁾
Housing material:	Aluminium, Metal
Napięcie zasilania:	10 V DC ... 30 V DC ⁷⁾
Bezpieczna jasność otoczenia:	Sunlight: ≤ 10.000 klx
Fieldbus interface:	-

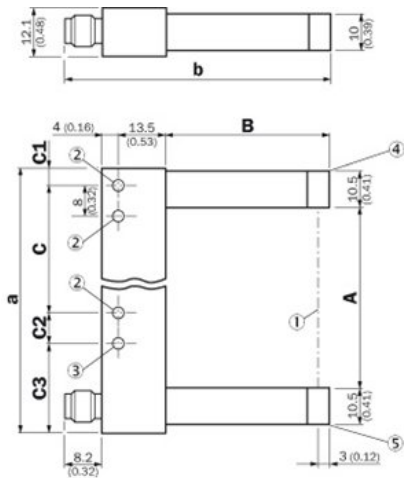
¹⁾ May not exceed or fall short of V_S tolerances
²⁾ Bez obciążenia
³⁾ With light/dark ratio 1:1
⁴⁾ Signal transit time with resistive load
⁵⁾ Reference voltage DC 50 V
⁶⁾ Depending on fork width
⁷⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A

Dane otoczenia

Obciążenie uderzeniowe:	According to EN 60068-2-27
UL File No.:	NRKH.E191603 & NRKH7.E191603
Ambient operating temperature:	-10 °C ... +60 °C ¹⁾
Ambient storage temperature:	-40 °C ... +80 °C

¹⁾ Do not bend below 0 °C

Rysunek techniczny



Dimensions in mm (inch)

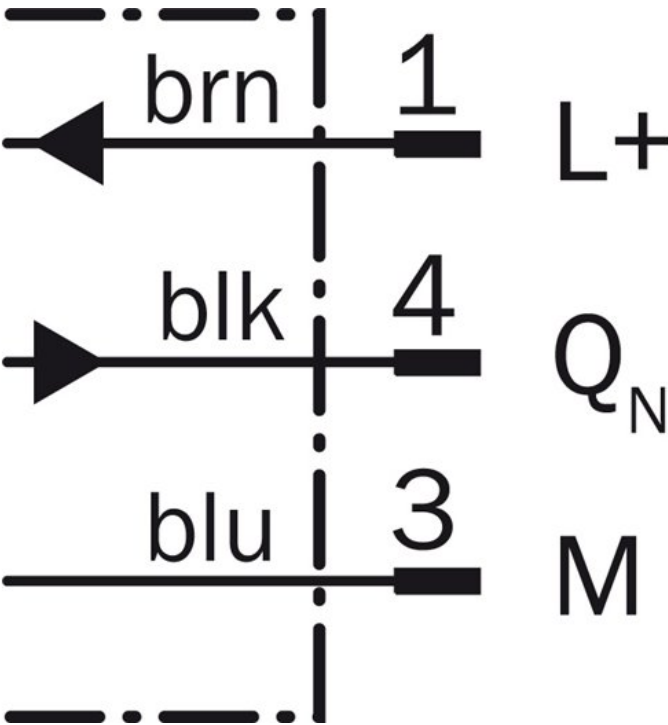
	A	B	C	C1
	Fork width	Fork depth		
WFM30	30 (1.18)	42 (1.65)	30 (1.18)	6.5 (0.26)
WFM50	50 (1.97)	60 (2.36)	40 (1.57)	6.5 (0.26)
WFM80	80 (3.15)	60 (2.36)	70 (2.76)	6.5 (0.26)
WFM120	120 (4.72)	124.3 (4.89)	100 (3.94)	17 (0.67)
WFM180	180 (7.09)	124.3 (4.89)	152 (5.98)	22 (0.87)

	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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