

Ripple	$\leq 5 V_{pp}^{2)}$
Power consumption	$\leq 20 \text{ mA}^{3)}$
Output type	PNP
Switching mode	Light/dark switching
Output current I_{max}	$< 50 \text{ mA}$
Response time	$< 0.5 \text{ ms}^{4)}$
Switching frequency	$1,000 \text{ Hz}^{5)}$
Connection type	Cable with M8 male connector, 4-pin, 200 mm ⁶⁾
Cable material	PVC
Cable diameter	$\varnothing 3 \text{ mm}$
Circuit protection	A ⁷⁾ B ⁸⁾ D ⁹⁾
Housing material	Plastic, ABS/PC
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	$-25 \text{ }^\circ\text{C} \dots +50 \text{ }^\circ\text{C}$
Ambient storage temperature	$-40 \text{ }^\circ\text{C} \dots +75 \text{ }^\circ\text{C}$
UL File No.	NRKH.E181493

1) Limit values.

2) May not exceed or fall below U_V tolerances.

3) Without load.

4) Signal transit time with resistive load.

5) With light/dark ratio 1:1.

6) Do not bend below $0 \text{ }^\circ\text{C}$.

7) A = V_S connections reverse-polarity protected.

8) B = output reverse-polarity protected.

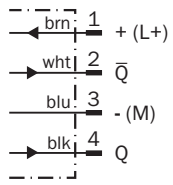
9) D = outputs overcurrent and short-circuit protected.

Classifications

ECl@ss 5.0	27270904
ECl@ss 5.1.4	27270904
ECl@ss 6.0	27270904
ECl@ss 6.2	27270904
ECl@ss 7.0	27270904
ECl@ss 8.0	27270904
ECl@ss 8.1	27270904
ECl@ss 9.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
UNSPSC 16.0901	39121528

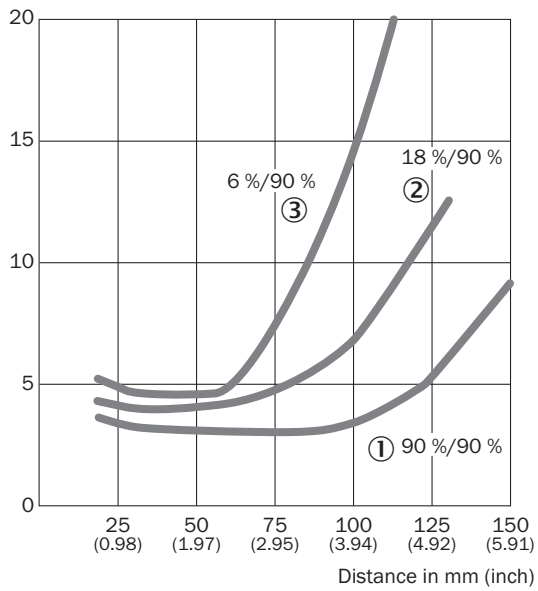
Connection diagram

Cd-084



Characteristic curve

WTB2S-2, 150 mm



- ① Sensing range on white, 90% remission
- ② Sensing range on gray, 18% remission
- ③ Sensing range on black, 6% remission