

WTF12G-3P2432T01 TranspaTect

MULTITASK PHOTOELECTRIC SENSORS



WTF12G-3P2432T01 | TranspaTect

MULTITASK PHOTOELECTRIC SENSORS



Ordering information

Туре	Part no.
WTF12G-3P2432T01	1071804

Other models and accessories

www.sick.com/TranspaTect

Illustration may differ



Features

PinPpint SICK

Functional principle	Photoelectric proximity sensor
Functional principle detail	Foreground suppression
Dimensions (W x H x D)	15.6 mm x 48.5 mm x 42 mm
Housing design (light emission)	Rectangular
Sensing range max.	150 mm 700 mm ¹⁾
Sensing range	0 mm 450 mm ²⁾
Type of light	Visible red light
Light source	PinPoint LED ³⁾
Light spot size (distance)	Ø 8 mm (300 mm)
Wave length	660 nm
Adjustment	Single teach-in button
Special feature	Detecting transparent objects
Special applications	Detecting transparent objects, Detecting uneven, shiny objects
Special features	Teflon coated housing

1) Adjustable background; referring to the background with 90 % remission (based on glass-bead blasted stainless steel, equivalent to standard white DIN 5033).

²⁾ Detection range transparent objects.

 $^{3)}$ Average service life: 100,000 h at T_U = +25 °C.

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 $^{1)}$ Limit values when operated in short-circuit protected network: max. 8 A.

 $^{2)}$ May not exceed or fall below ${\rm U}_{\rm V}$ tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

⁶⁾ A = V_S connections reverse-polarity protected.

⁷⁾ C = interference suppression.

 $^{(8)}$ D = outputs overcurrent and short-circuit protected.

Safety-related parameters

MTTFD	508 years
DC _{avg}	0 %
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

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eCl@ss 9.0	27270904
eCl@ss 10.0	27270904
eCl@ss 11.0	27270904
eCl@ss 12.0	27270903
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

Connection diagram

Cd-084



Characteristic curve



Legend: x: Sensing range max. in mm (adjustment range background) = Distance sensor / background

y: Sensing range in mm (detection range object) = Maximum distance sensor / front edge of the object

Minimum distance sensor / background : 150 mm*

*) Referring to the background with 90 % remission equivalent to standard white DIN 5033 (i.e. glass-bead blasted stainless steel). The use of a shiny background can increase the minimum distance to the background (i.e. brushed and pickled stainless steel, minimum distance sensor to background: 300 mm).

How to use this diagram:

Measure the distance from the sensor to the metal surface in the background. This is the value for x (adjustment range background). If this is 500 mm for example, the maximum distance between the sensor and the leading edge of a transparent object is 300 mm.

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Adjustments



- ④ LED indicator green: Supply voltage active
- (5) LED indicator yellow: Status of received light beam
- (a) Adjustment sensing range: single teach-in button

Recommended accessories

Other models and accessories → www.sick.com/TranspaTect

	Brief description	Туре	Part no.
Plug connecto	ors and cables		
\$ 0	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235
	Head A: male connector, M12, 4-pin, straight Cable: unshielded	STE-1204-G	6009932

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

