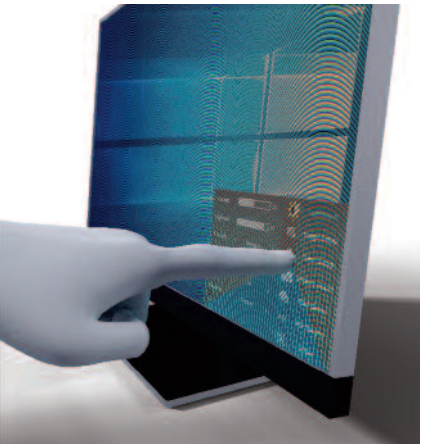
When Size, Weight & Power Count.

zForce Touch Solutions meet military and aerospace SWaP requirements – without sacrificing reliability or performance

Add versatility and performance to your equipment with Neonode zForce Touch Solutions.

Neonode optical reflective technology interacts with the position and movement of any reflective object within its range. It enables reliable touch interaction on any display or surface, with any overlay/protective front cover. zForce works with any input, including gloves, wet and greasy hands in even the most rugged and inhospital environments.

Don't settle for ordinary touch controls or display panels when you can design in a reliable and economical zForce Touch Solution into your next product today!



With Neonode Selective Area Touch (SAT) it is now possible for device manufacturers with large screens to incorporate touch to one or several smaller parts of the screen, providing customers with a very robust, compact and cost-competitive touch screen solution.

Neonode zForce Touch Solutions are:

Compact. Small module size and mounting options eliminates bulky touch frames/black-off areas on touch glass for maximum display area usage Weight

Lightweight. 6 gram (72mm length) touch system weight, works with plastic display protection film to eliminate the need for heavy touch glass.

Low-Power. zForce enables lower system power consumption as there is no need to compensate for display light loss caused by touch glass.

Over 66 million consumer products and 4 million cars have used zForce in their applications over the past two decades.

Contact your regional Neonode Sales Representative to design zForce into your next Product.

neonode®

www.neonode.com

Technical & Touch Performance Specifications

Technical Specifications

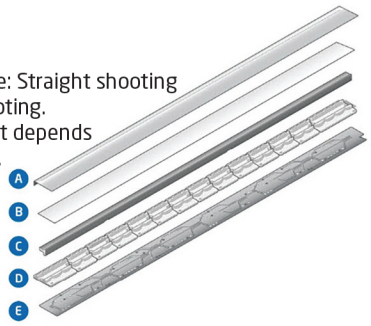
Item	Sensor Variant	Specifications	
Module Size (L x H x W)	0° Type	L x 3.46 x 14.5 mm	(L depending on product variant)
	90° Type	L x 3.46 x 15.45 mm	(L depending on product variant)
Power Consumption I2C Interface Active mode (100 Hz)	72 mm Sensor	57 mW	
	208.8 mm Sensor	80 mW	
	345.6 mm Sensor	104 mW	
Power Consumption I2C Interface Active mode (25 Hz)	72 mm Sensor	44 mW	
	208.8 mm Sensor	45 mW	
	345.6 mm Sensor	47 mW	

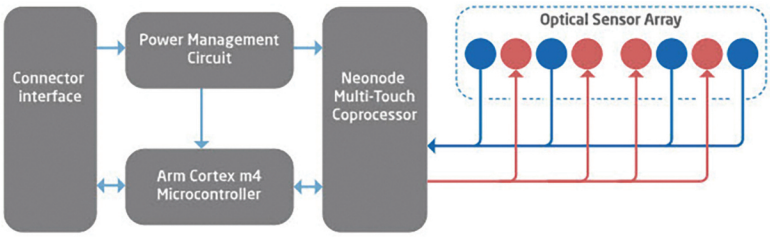
Touch Performance Specifications

Item	Specifications	
Input methods	Finger, hand or glove	
Minimum object size (diameter)	5 mm	
Number of touch objects	1,2, or more (depending on application)	
Touch accuracy	<5 mm for sensors >180 mm	<7.5 mm for sensors <180 mm
Touch Resolution	0.1 mm	
Touch activation force	0 N (No activation force required)	
Touch active area	Up to 345.6 x 327.7 mm. For details go to; https://support.neonode.com (introduction)	
Response time	~ 50 ms	10 ms (continuous tracking at 100 Hz in active mode)
Scanning frequency	Configurable up to 900 Hz, depending on product variant	

Parts of the zForce Sensor Module

A. Cover
B. Adhesive
C. Front Light Pipe: Straight shooting or 90 degree shooting.
D. Lenses: amount depends on Module length.
E. PCBA





Electrical Block Diagram

The PCBA is equipped with both active and passive components including: MCU, Co-processor (a Neonode proprietary scanning IC), Polycarbonate Optical Lenses, VCSELs, and Photo Diodes.

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