

# Capacitive Sensors

## Flatpack Series - FP



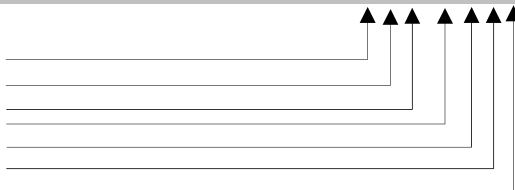
- Superior sensing performance
- Low profile design for flat surfaces
- Detects “hard to see” liquids or materials through residue
- High EMI, RF interference rejection design



### Order Template

### NCX30-FP55-AN4-WX1T

**Mechanical length** : M55  
**Function** : A (N.O), R (N.C.), V (Analog), D (Digital)  
**Output** : N (NPN), P (PNP), Z (2 wire AC)  
**Voltage Range** : 6 (10..65VDC) 7 (24 VAC)  
**Connector Type** : W (cable), Y (cable w/ connector)  
**Construction Type** : R (Ruggedized), X (Standard)  
**Wiring Type** : 1 (standard)  
**Option Code** : T (Teach), S (Standard)



### Electrical Specifications

Wiring	.	. 3 wire
Supply Voltage	.	. See order template
Supply Current (no load)	.	. <8 mA
Supply Current (load)	.	. 200 mA
Ripple (LINE)	.	. DC (<= 30mV p-p)
Hysteresis (Travel differential)	.	. <= 2%
Voltage Drop (sensor)	.	. DC (<=1.0VDC)
Overload Protection	.	. YES (Industrial) NO (Commercial)
Offstate Current	.	. < 100uA
Time Delay (ON state)	.	. < 10 ms
Reverse Polarity	.	. YES
Short Circuit Protection	.	. YES (Industrial) NO (Commercial)
Repeatability	.	. < 2% of rated operating distance

### Mechanical Specifications

Shock	.	. 30g, 11ms (Industrial), <=5g, 11ms (Commercial)
Vibration	.	. 55 Hz, 1mm Amplitude in all 3 planes
IP Rating	.	. IP67
Material	.	. ACETAL
Mounting	.	. Planar surface

### Operating Specifications

Proximity	.	. Shielded (0-40 mm)
Temperature	.	. -40 to 85 C
Switching Frequency	.	. > 2Hz
“ON” state duration	.	. < 10 ms

