Inductive Proximity Sensor

M18 Series

Dimension Installation			M18 x1	M18 x1
Mounting distance Sn			Flush (shielded) 5.0mm	Flush (shielded) 5.0mm
Detect distance Sn			04.0mm	
Detect distant				
			Unit: mm - Short Body	Unit: mm - Standard Body
PNP	DC 3 wires	NO	DSS-CPS-POM18SB-5FM	DSS-CPS-POM18LB-5FM
		NC	DSS-CPS-PCM18SB-5FM	DSS-CPS-PCM18LB-5FM
NPN	DC 3 wires	NO	DSS-CPS-NOM18SB-5FM	DSS-CPS-NOM18LB-5FM
		NC	DSS-CPS-NCM18SB-5FM	DSS-CPS-NCM18LB-5FM
Rated operational voltage (DC/AC)				
5 - 4 - 1				24/ 56
			24V DC	24V DC
Supply voltage			10-30V DC	10-30V DC
Supply voltage /oltage drop	e (DC/AC)		10-30V DC <2.0V	10-30V DC ≤2.0V
upply voltage /oltage drop Rated insulatio	e (DC/AC) on voltage		10-30V DC ≤2.0V ≥20M Ω	10-30V DC ≤2.0V ≥20M Ω
Supply voltage /oltage drop Rated insulatio Load current ca	n (DC/AC) on voltage apacity (DC/AC)		10-30V DC ≤ 2.0V ≥20M Ω 200mA	10-30V DC ≤ 2.0V ≥20M Ω 200mA
Supply voltage /oltage drop Rated insulatio .oad current ca Off-state curre	n (DC/AC) on voltage apacity (DC/AC)		10-30V DC ≤2.0V ≥20M Ω 200mA ≤15mA	10-30V DC ≤2.0V ≥20M Ω 200mA ≤10mA
Supply voltage /oltage drop Rated insulatio .oad current co Off-state curre .eak current	e (DC/AC) on voltage apacity (DC/AC) ont (NPN/PNP)		10-30V DC ≤2.0V ≥20M Ω 200mA ≤15mA ≤20 μA	
Supply voltage Voltage drop Rated insulatio Load current ca Off-state curre Leak current Against polarit	r (DC/AC) on voltage apacity (DC/AC) ont (NPN/PNP) cy reversal		10-30V DC <2.0V >20M Ω 200mA <15mA <20 μA YES	10-30V DC <2.0V >20M Ω 200mA <10mA <20 μA YES
Supply voltage (oltage drop Rated insulatio coad current co Off-state curre leak current Against polarit Short circuit pr	r (DC/AC) on voltage apacity (DC/AC) ont (NPN/PNP) cy reversal		10-30V DC ≤2.0V ≥20M Ω 200mA ≤15mA ≤20 μA	10-30V DC <2.0V >20M Ω 200mA <10mA <20 μA
Supply voltage /oltage drop Rated insulatio .oad current co Off-state curre .eak current Against polarit Short circuit pr .oad capacity	e (DC/AC) on voltage apacity (DC/AC) ent (NPN/PNP) ey reversal rotected			
Supply voltage /oltage drop Rated insulatio .oad current ca Off-state curre .eak current Against polarit Short circuit pr .oad capacity Repeated accu	e (DC/AC) on voltage apacity (DC/AC) ent (NPN/PNP) ey reversal rotected			
Supply voltage /oltage drop Rated insulatio .oad current co Off-state curre .eak current Against polarit Short circuit pr .oad capacity Repeated accu	e (DC/AC) on voltage apacity (DC/AC) ent (NPN/PNP) ey reversal rotected eracy erature range			
Supply voltage /oltage drop Rated insulatio .oad current co Off-state curre .eak current Against polarit Short circuit pr .oad capacity Repeated accu Ambient tempor irequency (DC 3/	e (DC/AC) on voltage apacity (DC/AC) ont (NPN/PNP) cy reversal rotected uracy erature range (2wires / AC 2 wires)			10-30V DC <2.0V
Supply voltage /oltage drop Rated insulatio .oad current co Off-state curre .eak current Against polarit Short circuit pr .oad capacity Repeated accu Ambient tempor irequency (DC 3/	e (DC/AC) on voltage apacity (DC/AC) ont (NPN/PNP) cy reversal rotected uracy erature range (2wires / AC 2 wires)			
Supply voltage /oltage drop Rated insulatio .oad current ca Off-state curre .eak current Against polarit Short circuit pr .oad capacity Repeated accu Ambient tempor requency (DC 3/ Function indica	e (DC/AC) on voltage apacity (DC/AC) ont (NPN/PNP) cy reversal rotected uracy erature range (2wires / AC 2 wires)			10-30V DC ≤ 2.0V >20M Ω 200mA ≤10mA ≤20 µA YES YES ≤1µF <5%
Supply voltage /oltage drop Rated insulatio .oad current ca Off-state curre .eak current Against polarit Short circuit pr .oad capacity Repeated accu Ambient temp requency (DC 3/ Function indica P ratings	e (DC/AC) on voltage apacity (DC/AC) ent (NPN/PNP) ey reversal rotected racy erature range /2wires / AC 2 wires) ation		10-30V DC <2.0V	10-30V DC <2.0V
Supply voltage Voltage drop Rated insulatio Load current ca Off-state current Leak current Against polarit Short circuit pr Load capacity Repeated accu Ambient tempo Frequency (DC 3/ Function indica P ratings Housing mater	e (DC/AC) on voltage apacity (DC/AC) ont (NPN/PNP) cy reversal rotected arracy erature range 2 wires / AC 2 wires) ation			10-30V DC $< 2.0V$ $> 20M \Omega$ 200mA $< 10mA$ $< 20 \mu A$ YES YES $< 1\mu F$ $< 5\%$ $-25+70^{\circ}C$ 700Hz/400Hz Red LED Indicator IP67 Nickle plate brass
Supply voltage Voltage drop Rated insulatio Load current co Off-state curre Leak current Against polarit Short circuit pr Load capacity Repeated accu	e (DC/AC) on voltage apacity (DC/AC) ont (NPN/PNP) cy reversal rotected arracy erature range (2wires / AC 2 wires) ation rial rial		10-30V DC <2.0V	10-30V DC <2.0V

When metal is within proximity to the sensor, the circuit will close and the indicating LED light will be ON.

Normally Closed (NC):

When metal is within proximity to the sensor, the circuit will open and the indicating LED light will be OFF.