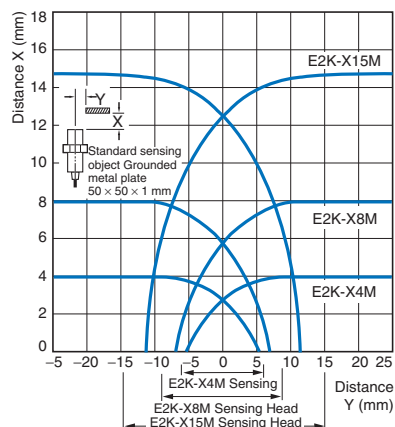


Engineering Data (Reference Value)

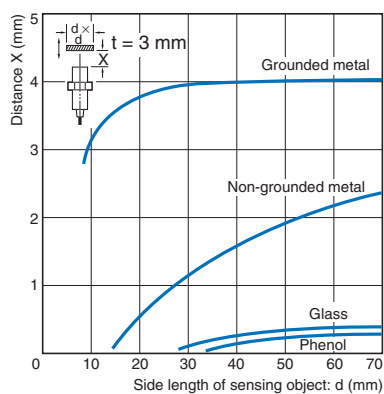
Sensing Area (Grounded Metal Plate)

E2K-X4M

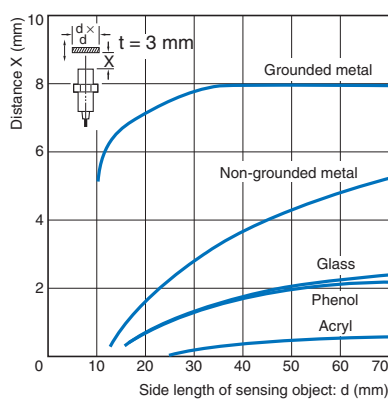


Influence of Sensing Object Size and Material

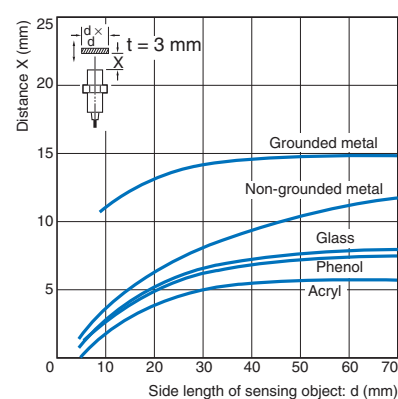
E2K-X4M



E2K-X8M

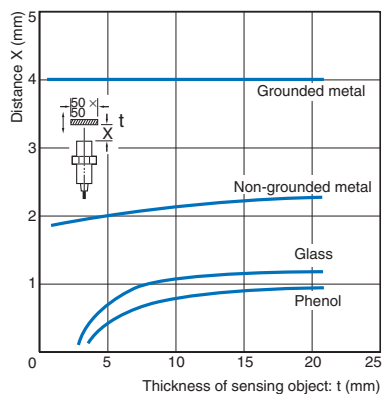


E2K-X15M

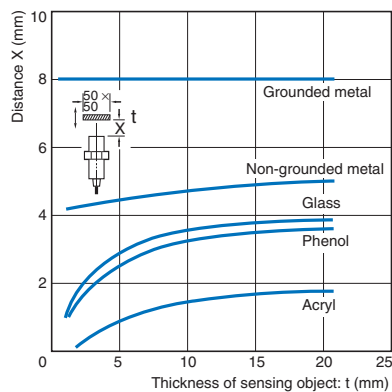


Sensing Object Thickness and Material vs. Sensing Distance

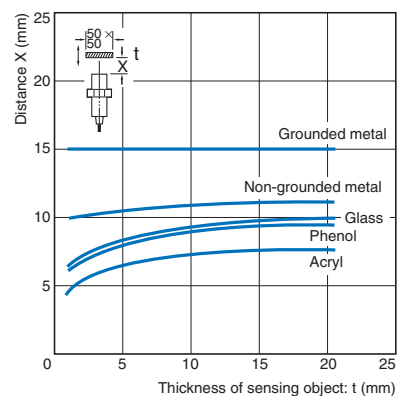
E2K-X4M



E2K-X8M

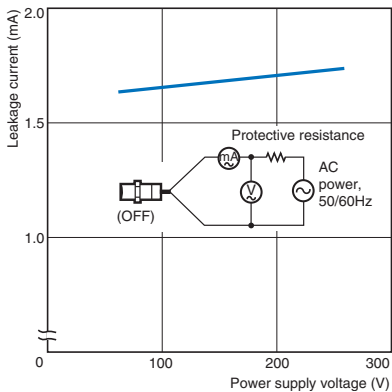


E2K-X15M



Leakage Current

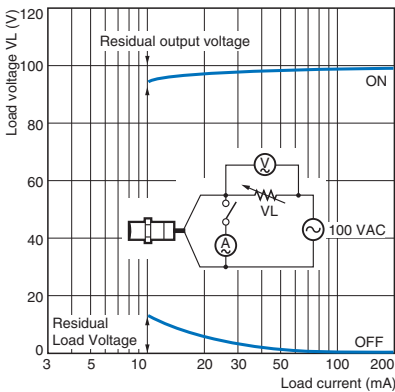
E2K-X□MY



Residual Output Voltage

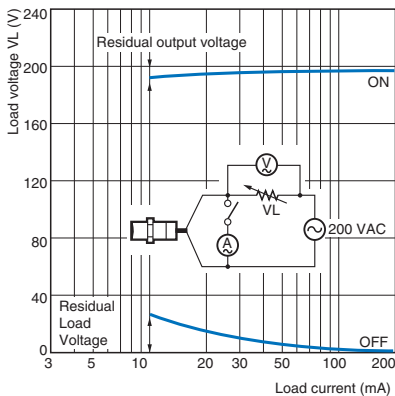
E2K-X□MY□

at 100 VAC



E2K-X□MY□

at 200 VAC



I/O Circuit Diagrams

DC 3-Wire Models (NPN)

Operation mode	Model	Timing chart	Output circuit
NO	E2K-X4ME1 E2K-X8ME1 E2K-X15ME1	Sensing object: Present (ON), Not present (OFF) Load (between brown and black leads): Operate (ON), Reset (OFF) Output voltage (between black and blue leads): High (ON), Low (OFF) Detection indicator (red): ON (ON), OFF (OFF)	
NC	E2K-X4ME2 E2K-X8ME2 E2K-X15ME2	Sensing object: Present (ON), Not present (OFF) Load (between brown and black leads): Operate (ON), Reset (OFF) Output voltage (between black and blue leads): High (ON), Low (OFF) Detection indicator (red): ON (ON), OFF (OFF)	*1. Load current: 200 mA max. *2. When a transistor is connected.

DC 3-Wire Models (PNP)

Operation mode	Model	Timing chart	Output circuit
NO	E2K-X4MF1 E2K-X8MF1 E2K-X15MF1	Sensing object: Present (ON), Not present (OFF) Load (between blue and black leads): Operate (ON), Reset (OFF) Output voltage (between black and brown leads): High (ON), Low (OFF) Detection indicator (red): ON (ON), OFF (OFF)	
NC	E2K-X4MF2 E2K-X8MF2 E2K-X15MF2	Sensing object: Present (ON), Not present (OFF) Load (between blue and black leads): Operate (ON), Reset (OFF) Output voltage (between black and brown leads): High (ON), Low (OFF) Detection indicator (red): ON (ON), OFF (OFF)	*1. Load current: 200 mA max. *2. When a transistor is connected.

AC 2-Wire Models

Operation mode	Model	Timing chart	Output circuit
NO	E2K-X4MY1 E2K-X8MY1 E2K-X15MY1	Sensing object: Present (ON), Not present (OFF) Load: Operate (ON), Reset (OFF) Operation indicator (red): ON (ON), OFF (OFF)	
NC	E2K-X4MY2 E2K-X8MY2 E2K-X15MY2	Sensing object: Present (ON), Not present (OFF) Load: Operate (ON), Reset (OFF) Operation indicator (red): ON (ON), OFF (OFF)	