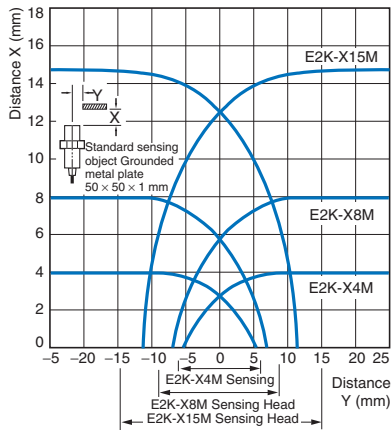


Engineering Data (Reference Value)

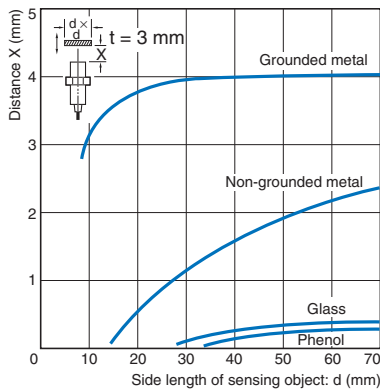
Sensing Area (Grounded Metal Plate)

E2K-X4M

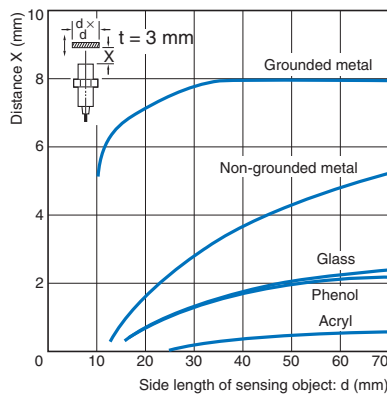


Influence of Sensing Object Size and Material

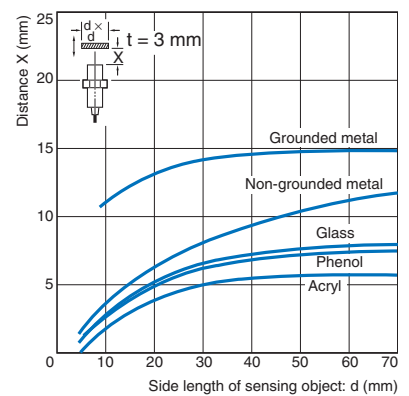
E2K-X4M



E2K-X8M

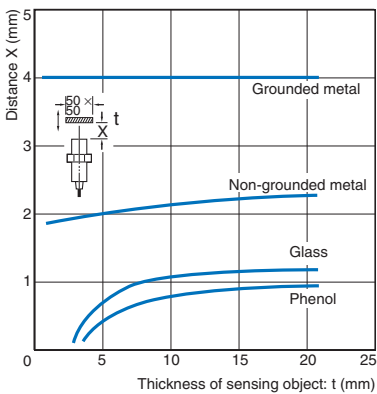


E2K-X15M

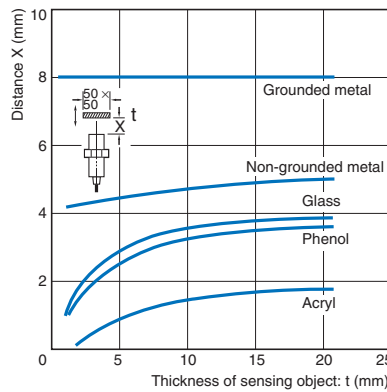


Sensing Object Thickness and Material vs. Sensing Distance

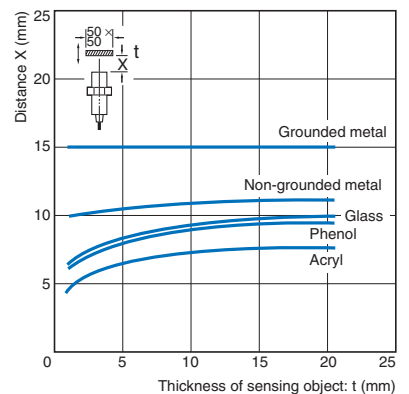
E2K-X4M



E2K-X8M

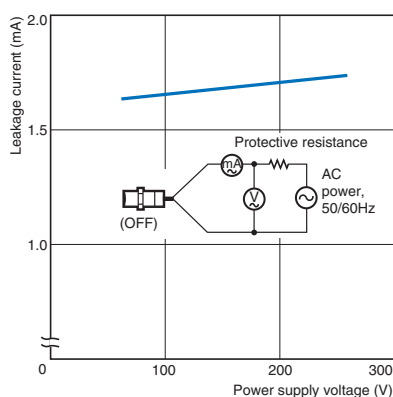


E2K-X15M



## Leakage Current

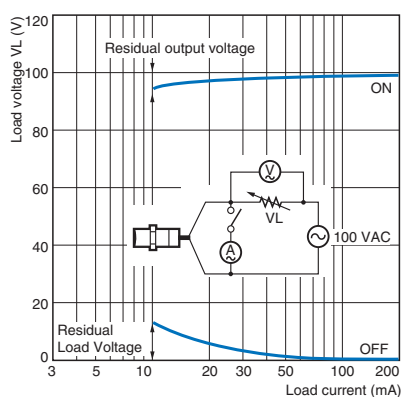
E2K-X□MY



## Residual Output Voltage

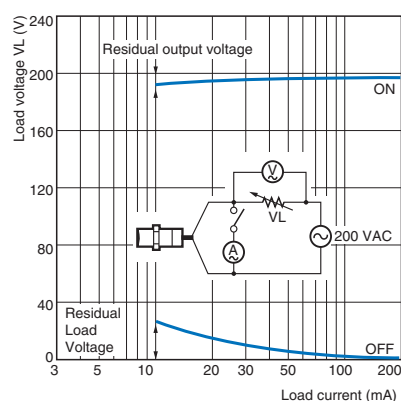
E2K-X□MY□

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 (High), Not present (Low) Load (between brown and black leads): Operate (High), Reset (Low) Output voltage (between black and blue leads): High, Low Detection indicator (red): ON, OFF	<p>*1. Load current: 200 mA max. *2. When a transistor is connected.</p>
		Sensing object: Present (High), Not present (Low) Load (between brown and black leads): Operate (High), Reset (Low) Output voltage (between black and blue leads): High, Low Detection indicator (red): ON, OFF	
NC	E2K-X4ME2 E2K-X8ME2 E2K-X15ME2	Sensing object: Present (High), Not present (Low) Load (between brown and black leads): Operate (High), Reset (Low) Output voltage (between black and blue leads): High, Low Detection indicator (red): ON, OFF	<p>*1. Load current: 200 mA max. *2. When a transistor is connected.</p>
		Sensing object: Present (High), Not present (Low) Load (between brown and black leads): Operate (High), Reset (Low) Output voltage (between black and blue leads): High, Low Detection indicator (red): ON, OFF	

### DC 3-Wire Models (PNP)

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

### AC 2-Wire Models

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