## HOA086X/087X

**Transmissive Sensor** 

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)								
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS		
IR EMITTER								
Forward Voltage	VF			1.6	V	l <sub>F</sub> =20 mA		
Reverse Leakage Current	IR			10	μA	V <sub>R</sub> =3 V		
DETECTOR								
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			V	Ic=100 μΑ		
Emitter-Collector Breakdown Voltage	V(BR)ECO	5.0			V	I <sub>E</sub> =100 μΑ		
Collector Dark Current	ICEO			100	nA	V <sub>CE</sub> =10 V, I <sub>F</sub> =0		
COUPLED CHARACTERISTICS								
On-State Collector Current	C(ON)				mA			
Parameter A		0.5				Vce=10, IF=20 mA		
(HOA0860/0865/0870/0875)								
Parameter B		1.0				V <sub>CE</sub> =5 V, I <sub>F</sub> =10 mA		
(HOA0861/0866/0871/0876)								
Parameter C		1.8				Vce=0.6, IF=20 mA		
(HOA0862/0867/0872/0877)								
Collector-Emitter Saturation Voltage	VCE(SAT)				V			
Parameter A				0.4		lc=0.4 mA, I⊧=20 mA		
(HOA0860/0865/0870/0875)								
Parameter B				0.4		lc=0.8 mA, I⊧=10 mA		
(HOA0860/0866/0871/0876)								
Parameter C				0.6		lc=1.8 mA, I⊧=20 mA		
(HOA0862/0867/0872/0877)								
Rise And Fall Time	t <sub>r</sub> , t <sub>f</sub>		15		μs	V <sub>CC</sub> =5 V, Ic=1 mA R∟=1000 Ω		

## ABSOLUTE MAXIMUM RATINGS

(25°C Free-Air Temperature unless otherwise noted) Operating Temperature Bange -40°C to 85°C

Operating remperature nange	-40 0 10 05 0
Storage Temperature Range	-40°C to 85°C
Soldering Temperature (5 sec)	240°C
IR EMITTER	
Power Dissipation	100 mW (1)
Reverse Voltage	3 V
Continuous Forward Current	50 mA
DETECTOR	
Collector-Emitter Voltage	30 V
Emitter-Collector Voltage	5 V
Power Dissipation	100 mW (1)
Collector DC Current	30 mA

Honeywell reserves the right to make changes in order to improve design and supply the best products possible.

SCHEMATIC Anode Collector Q

Cathode Emltter

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**Transmissive Sensor** 



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