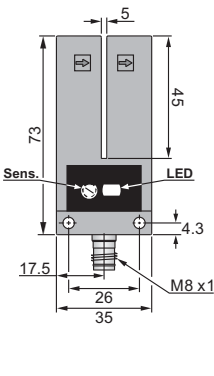
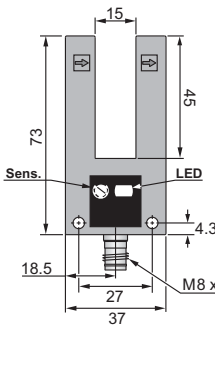


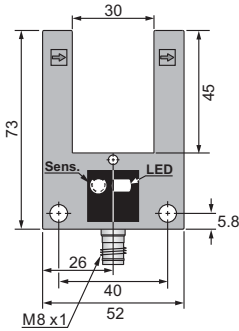
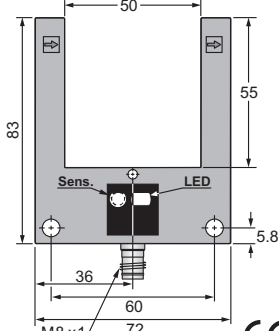
Thru-beam Mode (Slot Sensors)

Sensors type	U05	U15
Slot spacing	5mm	15mm
Dimensions(Unit: mm)		
PNP red light 660nm	<u>U05-T0005P-CY6Q4UP</u>	<u>U15-T0015P-CY6Q4UP</u>
NPN red light 660nm	<u>U05-T0005N-CY6Q4UP</u>	<u>U15-T0015N-CY6Q4UP</u>
PNP infrared light 880nm	<u>U05-T0005P-CY9Q4UP</u>	<u>U15-T0015P-CY9Q4UP</u>
NPN infrared light 880nm	<u>U05-T0005N-CY9Q4UP</u>	<u>U15-T0015N-CY9Q4UP</u>
Supply voltage	10...30 V DC	
Voltage drop	< 1.5 V	
Rated isolation voltage	75 V DC	
Rated operational current	200 mA	
No-load supply current	≤ 35 mA	
Protected against polarity reversal	YES	
Short-circuit protected	YES	
On/Off delay	0.2 ms	
Frequency of operating cycles	1000 Hz	
Switching hysteresis	≤ 0.1 mm	
Resolution	0.3 mm	
Repeatability	0.02 mm	
Output function	Light on / Dark on	
Permissible ambient light	10 Klux	
Function indicator	LED red	
Ambient temperature range	-10...60°C	
Degree of protection	IP 65	
EMC	_____	IEC 60947-5-2, Parts 7.2.6. 1.2.3 or RFI>3V/m (in 30-1000MHz),EFT>1KV, ESD>4KV(contact)
Shock	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each	
Vibration	IEC 60947-5-2, Part 7.4.2 or 10-55Hz, 1.0mm amplitude in x, y and z directions for 30min	
Housing material	Die-cast	
Connection	M8 4pin Connector	
Weight	20 g	23 g
Photo		

Note:

Coming Soon : Part numbers with underline
In Preparation: Part numbers with a line through the middle

Thru-beam Mode (Slot Sensors)

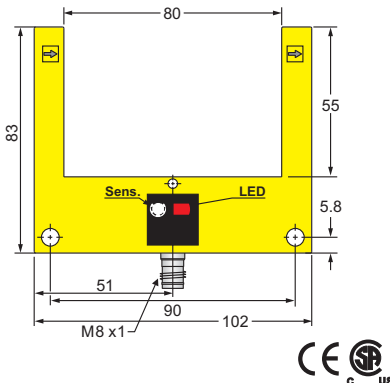
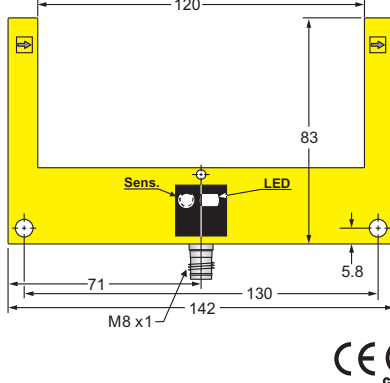
Sensors type	U30	U50
Slot spacing	30mm	50mm
Dimensions(Unit: mm)		
PNP red light 660nm	<u>U30-T0030P-CY6Q4UP</u>	<u>U50-T0050P-CY6Q4UP</u>
NPN red light 660nm	<u>U30-T0030N-CY6Q4UP</u>	<u>U50-T0050N-CY6Q4UP</u>
PNP infrared light 880nm	<u>U30-T0030P-CY9Q4UP</u>	<u>U50-T0050P-CY9Q4UP</u>
NPN infrared light 880nm	<u>U30-T0030N-CY9Q4UP</u>	<u>U50-T0050N-CY9Q4UP</u>
Supply voltage	10...30 V DC	
Voltage drop	< 1.5 V	
Rated isolation voltage	75 V DC	
Rated operational current	200 mA	
No-load supply current	≤ 35 mA	
Protected against polarity reversal	YES	
Short-circuit protected	YES	
On/Off delay	0.2 ms	
Frequency of operating cycles	500 Hz	
Switching hysteresis	≤ 0.1 mm	
Resolution	0.3 mm	0.5 mm
Repeatability	0.02 mm	0.04 mm
Output function	Light on / Dark on	
Permissible ambient light	10 Klux	
Function indicator	LED red	
Ambient temperature range	-10...60°C	
Degree of protection	IP 65	
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz),EFT>1KV, ESD>4KV(contact)	
Shock	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each	
Vibration	IEC 60947-5-2, Part 7.4.2 or 10-55Hz, 1.0mm amplitude in x, y and z directions for 30min	
Housing material	Die-cast	
Connection	M8 4pin Connector	
Weight	36 g	58 g
Photo		

Note:

Coming Soon : Part numbers with underline

In Preparation: Part numbers with a line through the middle

Thru-beam Mode (Slot Sensors)

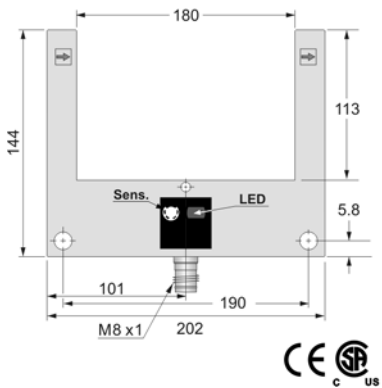
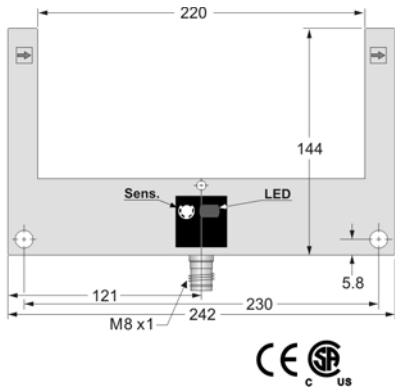
Sensors type	U80	U120
Slot spacing	80mm	120mm
Dimensions(Unit: mm)		
PNP red light 660nm	<u>U80-T0080P-CY6Q4UP</u>	<u>U120-T0120P-CY6Q4UP</u>
NPN red light 660nm	<u>U80-T0080N-CY6Q4UP</u>	<u>U120-T0120N-CY6Q4UP</u>
PNP infrared light 880nm	<u>U80-T0080P-CY9Q4UP</u>	<u>U120-T0120P-CY9Q4UP</u>
NPN infrared light 880nm	<u>U80-T0080N-CY9Q4UP</u>	<u>U120-T0120N-CY9Q4UP</u>
Supply voltage	10...30 V DC	
Voltage drop	< 1.5 V	
Rated isolation voltage	75 V DC	
Rated operational current	200 mA	
No-load supply current	≤ 35 mA	
Protected against polarity reversal	YES	
Short-circuit protected	YES	
On/Off delay	0.33 ms	
Frequency of operating cycles	500 Hz	
Switching hysteresis	≤ 0.2 mm	
Resolution	0.5 mm	0.8 mm
Repeatability	0.06 mm	0.08 mm
Output function	Light on / Dark on	
Permissible ambient light	5 Klux	
Function indicator	LED red	
Ambient temperature range	-10...60°C	
Degree of protection	IP 65	
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz),EFT>1KV, ESD>4KV(contact)	
Shock	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each	
Vibration	IEC 60947-5-2, Part 7.4.2 or 10-55Hz, 1.0mm amplitude in x, y and z directions for 30min	
Housing material	Die-cast	
Connection	M8 4pin Connector	
Weight	79 g	116 g
Photo		

Note:

Coming Soon : Part numbers with underline

In Preparation: Part numbers with a line through the middle

Thru-beam Mode (Slot Sensors)

Sensors type	U180	U220
Slot spacing	180mm	220mm
Dimensions(Unit: mm)		
PNP red light 660nm	<u>U180-T0180P-CY6Q4UP</u>	<u>U220-T0220P-CY6Q4UP</u>
NPN red light 660nm	<u>U180-T0180N-CY6Q4UP</u>	<u>U220-T0220N-CY6Q4UP</u>
PNP infrared light 880nm	<u>U180-T0180P-CY9Q4UP</u>	<u>U220-T0220P-CY9Q4UP</u>
NPN infrared light 880nm	<u>U180-T0180N-CY9Q4UP</u>	<u>U220-T0220N-CY9Q4UP</u>
Supply voltage	10...30 V DC	
Voltage drop	< 1.5 V	
Rated isolation voltage	75 V DC	
Rated operational current	200 mA	
No-load supply current	≤ 35 mA	
Protected against polarity reversal	YES	
Short-circuit protected	YES	
On/Off delay	0.33 ms	
Frequency of operating cycles	1500 Hz	
Switching hysteresis	≤ 0.2 mm	
Resolution	0.8 mm	1.0 mm
Repeatability	0.08 mm	0.10 mm
Output function	Light on / Dark on	
Permissible ambient light	5 Klux	
Function indicator	LED red	
Ambient temperature range	-10...60°C	
Degree of protection	IP 65	
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV(contact)	
Shock	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each	
Vibration	IEC 60947-5-2, Part 7.4.2 or 10-55Hz, 1.0mm amplitude in x, y and z directions for 30min	
Housing material	Die-cast	
Connection	M8 4pin Connector	
Weight	190 g	220 g
Photo		

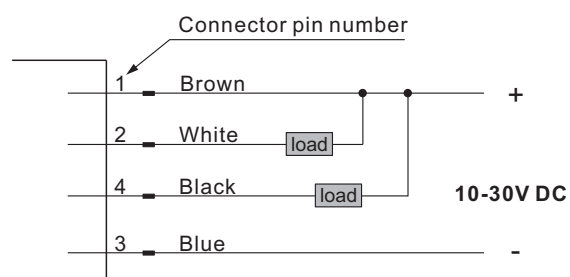
Note:

Coming Soon : Part numbers with underline

In Preparation: Part numbers with a line through the middle

Connection Diagrams

NPN output type

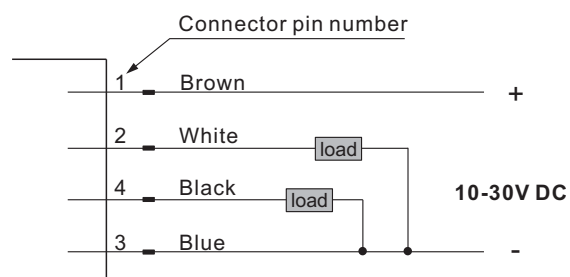


Connector face view

Pico-Style



PNP output type



Connector face view

Pico-Style

