

features

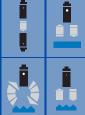
- Axial and right angle optics
- 2 LEDs (threshold and signal margin)
- Visible red light in retro-reflective, polarized and through-beam models
- Long distances capability
- Precision beam
- Fast response time (0,75-0,5 ms)
- NPN-PNP selectable output
- High output current (>300 mA)

web content



- Application notes
- Photos
- Catalogue / Manuals

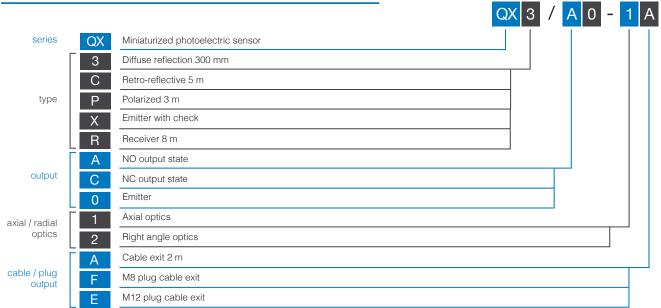




DC miniaturized cubic

CE

code description



available models

axial optic

			cable		plug M8		plug M12	
model		distance	NO	NC	NO	NC	NO	NC
direc	t diffuse	300 mm	QX3/A0-1A	QX3/C0-1A	QX3/A0-1F	QX3/C0-1F	QX3/A0-1E	QX3/C0-1E
retro-reflective		5 m	QXC/A0-1A	QXC/C0-1A	QXC/A0-1F	QXC/C0-1F	QXC/A0-1E	QXC/C0-1E
polarized		3 m	QXP/A0-1A	QXC/C0-1A	QXP/A0-1F	QXP/C0-1F	QXP/A0-1E	QXP/C0-1E
through- beam	emitter	0	QXX/00-1A		QXX/00-1F		QXX/00-1E	
	receiver	8 m	QXR/A0-1A	QXR/C0-1A	QXR/A0-1F	QXR/C0-1F	QXR/A0-1E	QXR/C0-1E

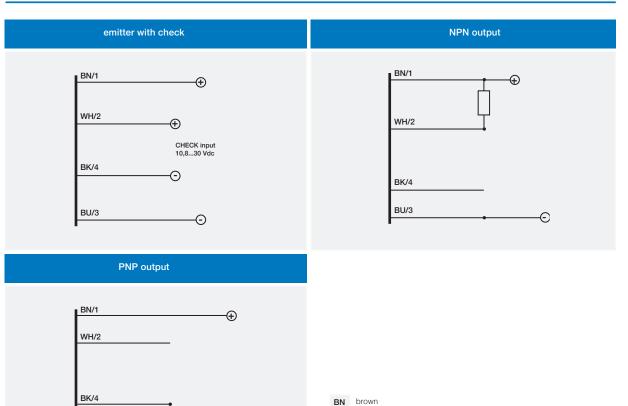
available models radial optic

model		distance	cable		plug M8		plug M12	
			NO	NC	NO	NC	NO	NC
direct diffuse		300 mm	QX3/A0-2A	QX3/C0-2A	QX3/A0-2F	QX3/C0-2F	QX3/A0-2E	QX3/C0-2E
retro-reflective		5 m	QXC/A0-2A	QXC/C0-2A	QXC/A0-2F	QXC/C0-2F	QXC/A0-2E	QXC/C0-2E
polarized		3 m	QXP/A0-2A	QXC/C0-2A	QXP/A0-2F	QXP/C0-2F	QXP/A0-2E	QXP/C0-2E
through- beam	emitter	8 m	QXX/00-2A		QXX/00-2F		QXX/00-2E	
	receiver	0111	QXR/A0-2A	QXR/C0-2A	QXR/A0-2F	QXR/C0-2F	QXR/A0-2E	QXR/C0-2E

technical specification

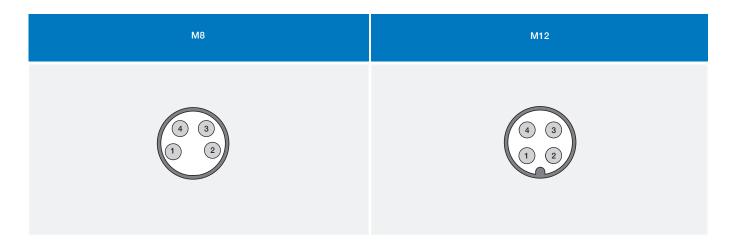
	diffuse reflection	retro-reflective	polarized	through-beam			
	QX3/*0-**	QXC/*0-**	QXP/*0-**	QXX/*0-** QXR/*0-**			
	41-200 (81)	4	4	4			
nominal sensing distance	300 mm ⁽¹⁾	5 m ⁽²⁾	3 m ⁽²⁾	8 m			
emission	infrared (880 nm)						
minimum detectable object		2 mm					
tolerance		-					
hysteresis	10 %						
repeatability	5 %						
operating voltage	10,830 Vdc						
ripple	10 % max						
load current		20 mA (emitter) 5 mA (receiver)					
check voltage		10,830 Vdc (QXX)					
load current	300 mA						
leakage current	100 μA max at 30 Vdc						
output voltage drop	1,2 V max IL = 100 mA						
output type							
switching frequency		500 Hz (Tr = 0,75 ms)					
power on delay							
operating temperature range	- 25°C+ 70°C (without freeze)						
power supply protections	polarity reversal, transient						
output protection							
protection degree	IP67 (EN60529) (3)						
EMC	in conformity with the EMC Directive according to EN 60947-5-2						
external light interference	3,000 lux (incandescent lamp), 10,000 lux (sunlight)						
LEDs	RED LED (margin low signal) CHECK (QXX) GREEN LED (stability) POWER (QXX)						
housing material	ABS (glass fiber reinforced)						
optic material	acrylic						
weight (approximate)		30 g connector / 7	0 g cable (single)				

⁽⁹⁾ With 100x100 mm white matt paper (2) With standard reflector Ø80 mm (RL110 supplied seperately) (3) Protection guaranteed only with plug cable well mounted



plug

BU/3

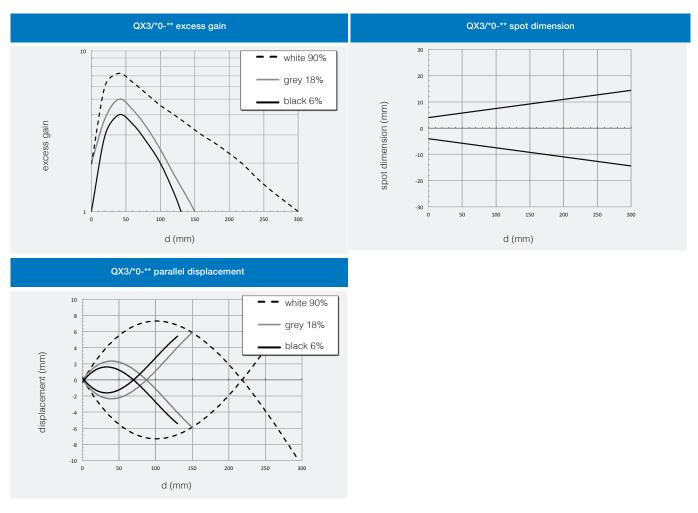


BK black

WH white

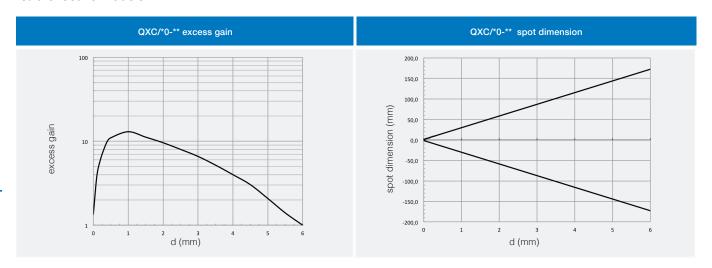


direct reflection models

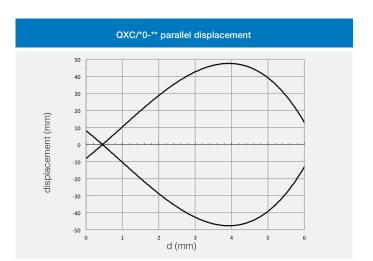


response diagrams

retroreflective models



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response diagrams

polarized models

