

NCG-3xxx

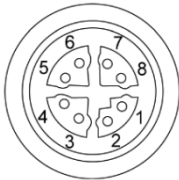
IP-Gigabit-Ethernet-Flächenkamera
NCG-3xxx-Serie Monochrom / Farbe

IP Gigabit Ethernet Area Scan Camera
NCG-3xxx series monochrome / color

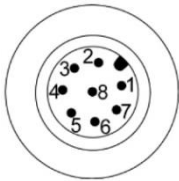


Technische Beschreibung / *Specification*

Schutzart / <i>Protection</i>	IP65 inkl. Optik-Tubus / <i>IP65 incl. lens tube</i>									
Optikadapter / <i>Optical interface</i>	C-Mount									
Spannungsversorgung / <i>Voltage feed</i>	<ul style="list-style-type: none"> via Power and Process Interface (extern / <i>external</i>) via Data Interface (PoE) 									
Data Interface	<p>M12-Buchse, X-codiert, 8-polig / <i>M12 female conn., X-coded, 8 pole</i></p> <p>Gigabit-Ethernet-Anschluss mit PoE: Daten und Steuerung / <i>Gigabit Ethernet connection: data and control interface</i></p> <p>Pin Belegung / <i>Pin assignment:</i></p> <table border="0"> <tr> <td>1 – MX1+</td> <td>4 – MX2-</td> <td>7 – MX3-</td> </tr> <tr> <td>2 – MX1-</td> <td>5 – MX4+</td> <td>8 – MX3+</td> </tr> <tr> <td>3 – MX2+</td> <td>6 – MX4-</td> <td></td> </tr> </table>	1 – MX1+	4 – MX2-	7 – MX3-	2 – MX1-	5 – MX4+	8 – MX3+	3 – MX2+	6 – MX4-	
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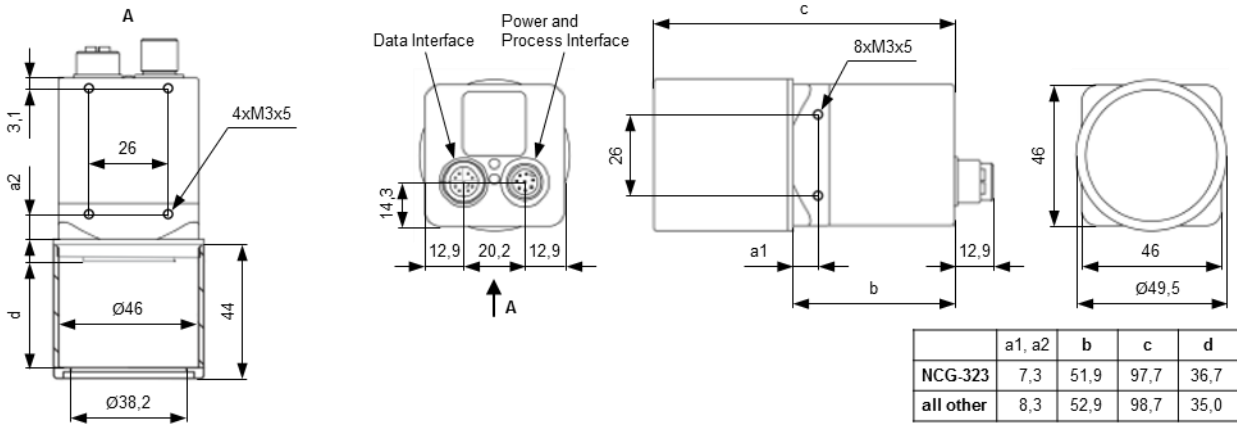
Power and Process Interface	<p>M12-Stecker, A-codiert, 8-polig / <i>M12 male conn., A-coded, 8 pole</i></p> <p>Spannungsversorgung, Trigger, Blitz / <i>voltage feed, trigger, flash</i></p> <p>Pin-Belegung / <i>Pin assignment:</i></p> <table border="0"> <tr> <td>1 - OUT 3 (white)</td> <td>2 Power VCC+ (brown)</td> <td>3 - IN1 (green)</td> <td>4 - IO GND (yellow)</td> <td>5 - IO Power VCC (grey)</td> <td>6 - OUT 1 (pink)</td> <td>7 - Power GND (blue)</td> <td>8 - OUT 2 (red)</td> </tr> </table>	1 - OUT 3 (white)	2 Power VCC+ (brown)	3 - IN1 (green)	4 - IO GND (yellow)	5 - IO Power VCC (grey)	6 - OUT 1 (pink)	7 - Power GND (blue)	8 - OUT 2 (red)	
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wire colours for
 KAB-SG-M12-8p-Bu_NCG/XX

Gewicht / <i>Weight</i>	220 g inkl. Optik-Tubus / <i>220 g incl. lens tube</i>
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Technische Zeichnung / *Technical drawing*



Variantenübersicht / Variants overview								
	NCG-312M.I	NCG-312C.I	NCG-320M.I	NCG-320C.I	NCG-323M.I	NCG-323C.I	NCG-340M.I	NCG-340C.I
Chip / Sensor Shutter / <i>Shutter</i> Größe / <i>Scan area</i> Pixelgröße / <i>Pixel size</i>	1/3" progressive scan CCD global 4,83 mm x 3,60 mm 3,75 µm x 3,75 µm monochrome color		1/1,8" progressive scan CCD global 7,14 mm x 5,40 mm 4,4 µm x 4,4 µm monochrome color		1/1,2" progressive scan CMOS global 11,25 mm x 7,03 mm 5,86 µm x 5,86 µm monochrome color		1" progressive scan CMOS global 11,22 mm x 11,24 mm 5,5 µm x 5,5 µm monochrome color	
Auflösung / Resolution	1288 x 960 pixels		1624 x 1228 pixels		1920 x 1200 pixels		2040 x 2044 pixels	
Bildwechselfrequenz / Frame rate	42 fps Full Frame		27 fps Full Frame		53 fps Full Frame		29 fps Full Frame	
Belichtungszeit / Exposure time	4 µs ... 60 s		4 µs ... 60 s		45 µs ... 60 s		20 µs ... 1 s	
Verstärkungsfaktor / Gain	0 ... 29 dB		0 ... 29 dB		0 ... 48 dB		0 ... 18 dB	
Partial Scan	✓		✓		✓		✓	
Binning horizontal / vertical 1/2	✓		✓		✓		✓	
Farbmodelle / Color models	Mono	RGB, YUV, Mono	Mono	RGB, YUV, Mono	Mono	RGB, YUV, Mono	Mono	RGB, YUV, Mono
Farbanpassungen / Color processing and adjustment	-	✓	-	✓	-	✓	-	✓
Elektrische Daten / Electrical data Extern / external PoE	U: 24 V DC, I: 150 mA, P: 3,6 W U: 48 V DC, I: 80 mA, P: 3,8 W		U: 24 V DC, I: 179 mA, P: 4,3 W U: 48 V DC, I: 98 mA, P: 4,7 W		U: 24 V DC, I: 146 mA, P: 3,5 W U: 48 V DC, I: 79 mA, P: 3,8 W		U: 24 V DC, I: 150 mA, P: 3,6 W U: 48 V DC, I: 80 mA, P: 3,8 W	
External Trigger	U _{IN(low)} : 0,0 ... 4,5 V DC, U _{IN(high)} : 11 ... 30 V DC, min. pulse length: 2,0 µs							
Flash-Output	U _{EXT} : 5 ... 30 V DC, I _{OUT} : max. 50 mA							