



Technical data

KUKA_ 3D Perception Sensor

Basic data

	_3D Perception 65m/c	_3D Perception 160m/c
Focal length	65 mm	160 mm
Depth measurement range	0,2 m ... 1,0 m	0,5 m ... 3,0 m
Image resolution	1280 x 960 Pixel	
Field of view	Horizontal: 61° Vertical: 48°	
Resolution	High: 640 x 480 Pixel bei 3 Hz Medium: 320 x 240 Pixel bei 15 Hz Low: 214 x 160 Pixel bei 25 Hz	
Depth resolution	0,5 mm bei 0,2 m 15 mm bei 1,0 m	1,5 mm bei 0,5 m 6 mm bei 1,0 m 23 mm bei 2,0 m 50 mm bei 3,0 m
Intrinsic motion (IMU)	200 Hz, low latency	
Processor	Nvidia Tegra K1	
SLAM	Integrated (optional)	
Power supply	18 V ... 30 V	
Digital input	Voltage (min.): 0 V DC Voltage (max.): 11 ... 30 V DC Rated current: 5 ... 10 mA	



	_3D Perception 65m/c	_3D Perception 160m/c
Digital output	Voltage: 5 ... 30 V DC Rated current: max. 50 mA	
r.m.s. acceleration (sustained oscillation)	5 g	
Acceleration (shock in X/Y/Z direction)	50 g	
Frequency range (sustained oscillation)	20 ... 2000 Hz	
Waveform/duration (shock in X/Y/Z direction)	Half-sine/8 ms	
Dimensions (LxHxW)	135 x 75 96 mm	230 x 75 x 84 mm
Weight	680 g	850 g
Cooling	Passive (convective)	
Protection rating	IP 54	

Environmental conditions

Ambient temperature during operation	0 ... 50 °C (273 ... 323 K)
Ambient temperature during storage/ transportation	-25 ... +70 °C (248 ... 343 K)
Relative air humidity	20 % ... 80 % (no condensation)

