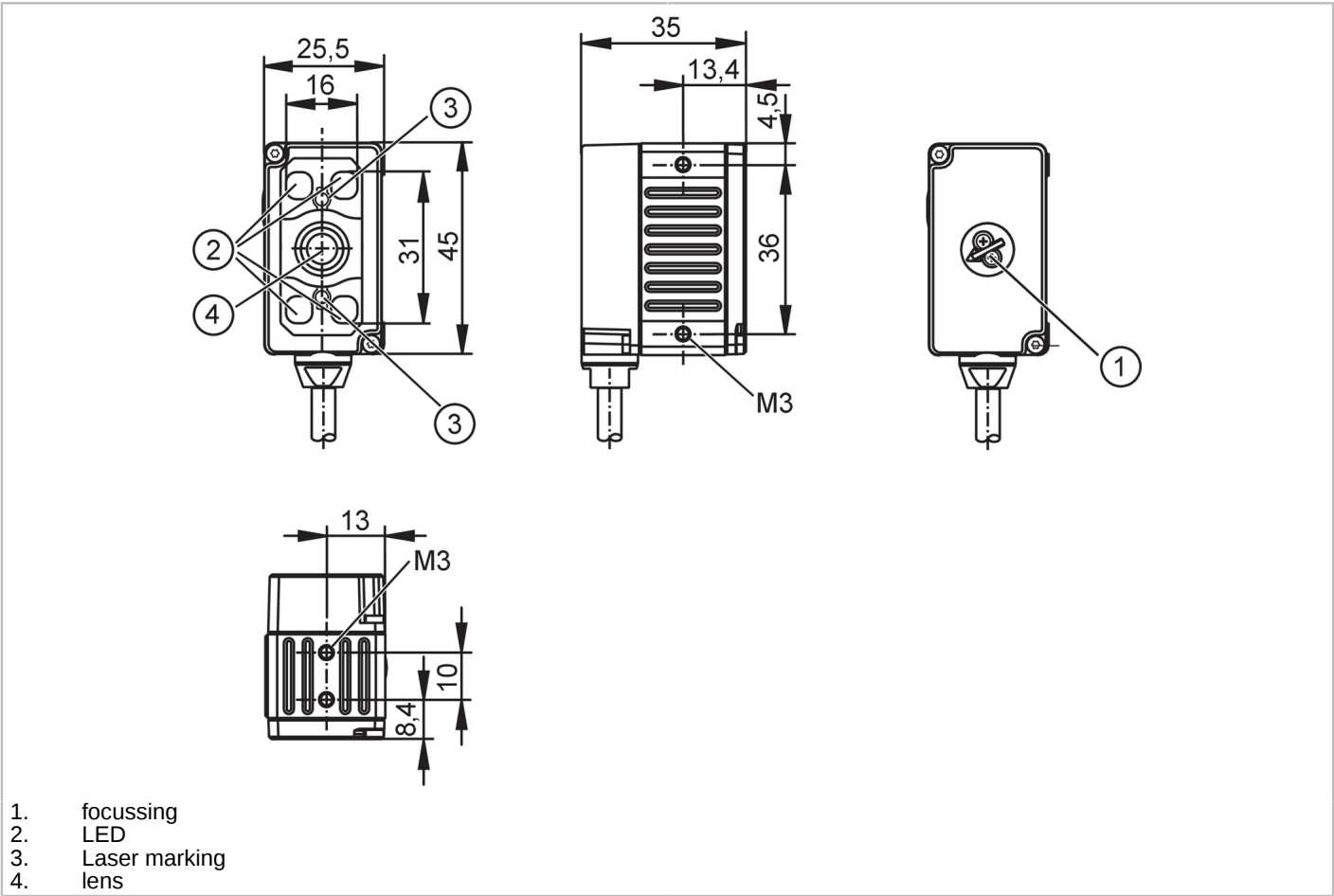




1D/2D code readers

O2IRRDKG/E1/RS232/W



Product characteristics		
Type of light		red light
Image resolution	[px]	1440 x 1080
Image repetition frequency	[Hz]	60
Max. reading rate	[Hz]	50
Application		
Special feature		polarisation filter
Electrical data		
Operating voltage	[V]	9...26 DC
Power consumption	[W]	3.5
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	634
Image sensor		CMOS image sensor black/white
Laser marking		red light
Inputs / outputs		
Total number of inputs and outputs		3



1D/2D code readers

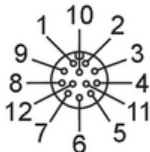
O2IRRDKG/E1/RS232/W

Number of inputs and outputs		Number of digital outputs: 2			
Inputs					
Total number of inputs		2			
Trigger		external; 24 V PNP/NPN; internal			
Outputs					
Total number of outputs		2			
Number of digital outputs		2; (configurable)			
Max. voltage drop switching output DC [V]		Pin 3		2.4; (electrically isolated)	
		Pin 6		0.4; (GPIO)	
Max. current load per output [mA]		100			
Short-circuit protection		no			
Detection zone					
Field of view size [mm]		Operating distance		field of view	
		40		30 x 22	
		70		52 x 39	
		110		82 x 61	
		130		96 x 72	
		150		111 x 83	
Operating distance [mm]		40...150			
Image resolution [px]		1440 x 1080			
Lens type		Wide angle			
Image repetition frequency [Hz]		60			
Readable codes		Interleaved 2-of-5; Industrial 2-of-5; Code 39; Code 93; Code 128; Codabar; EAN8; EAN13; UPC-A; UPC-E; DataMatrix; QR; Micro-QR			
Code quality based on				ISO / IEC 15415	
				ISO / IEC 15416	
				ISO/IEC TR 29158 (AIM DPM)	
Bewegungsgeschwindigkeit [m/s]		3			
Polarisation filter available		yes			
Omnidirectional reading		yes			
Max. inclination to the image plane [°]		45			
Max. reading rate [Hz]		50			
Software / programming					
Parameter setting options		teach button; via PC with ifm Vision Assistant			
Interfaces					
Communication interface		Ethernet; RS232			
Ethernet					
Number of Ethernet interfaces		1			
Transmission standard		10Base-T; 100Base-TX			
Transmission rate		100 MBit/s			
Protocol		TCP/IP Client; TCP Server; FTP; Modbus TCP			
Factory settings		IP address: DHCP auto detect			
Usage type		parameter setting; data transmission			



1D/2D code readers

O2IRRDKG/E1/RS232/W

Operating conditions		
Ambient temperature	[°C]	-20...50
Storage temperature	[°C]	-30...70
Max. relative air humidity	[%]	95; (non condensing)
Max. height above sea level	[m]	2000
Protection		IP 52
Pollution degree		2
Tests / approvals		
EMC	EN IEC 61000-6-4 radiation of interference	industrial environments
	EN IEC 61000-6-2 immunity	industrial environments
Photobiological safety	exempt group; (EN 62471)	
Electrical safety	EN 62368-1	ES1; PS2
Mechanical data		
Weight	[g]	182.4
Type of mounting	screw mounting; (bore hole M3 x 5 mm)	
Dimensions	[mm]	45 x 25.5 x 35
Materials	housing: aluminium; front pane: glass	
Displays / operating elements		
Display	decoding	1 LED, red/green decoding status
	operation	1 LED, green
	connection	1 LED, green Ethernet
Operating elements	Teach-Taste	
Accessories		
Items supplied	screw 4 x M6 x 6 mm	
Accessories (optional)	Operating software	
	Mounting accessories	
	Adapter cable	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Cable: 0.5 m, PVC		
Electrical connection - socket		
Connector: 1 x M12, straight; Contacts: 12; Moulded body: stainless steel		
		



1D/2D code readers

O2IRRDKG/E1/RS232/W

Connection		
1	L+	(sensor supply US)
2	L-	(sensor supply US)
3	OUT	DO1 (actuator supply UA; electrically isolated)
4	L-	(actuator supply UA; electrically isolated)
5	IN	DI1 (actuator supply UA; electrically isolated)
6	MP	DO2 , DI2
7	DATA	RX- (Ethernet)
8	DATA	RX+ (Ethernet)
9	DATA	TX- (Ethernet)
10	DATA	TX+ (Ethernet)
11	DATA	RX (RS232)
12	DATA	TX (RS232)