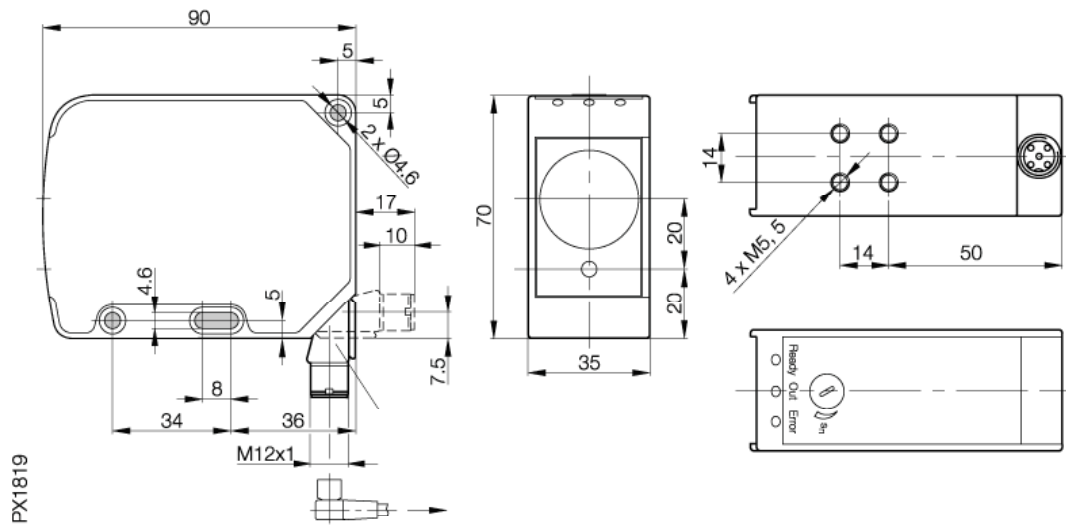


BOD 63M-LA02-S115

Photoelectric Sensors,
Distance Sensors

PNP**Sn = 2000 mm**

BALLUFF
sensors worldwide

**Electrical data:**

Off Time delay	2 ms
On Time delay	2 ms
Analog output	0...10 V DC
Load current: capacity max. (I _e)	200 mA
Switching output	PNP
Operating frequency (f)	250 Hz
Current Consumption I _o max. (No Load)	75 mA
Supply voltage min.	15 V
Supply voltage max.	30 V

Mechanical data:

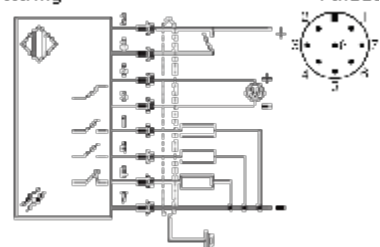
Number of wires	5
Sensing face material	Glass
Housing material	Aluminium alloy
Linearity	<2 %
Operating Distance Adjustment	Potentiometer
Effective working dist. min.	200 mm
Effective working dist. max.	2000 mm
Ambient temperature max.	+60 °C
Ambient temperature min.	-10 °C
weight	260 g
Operating range max.	2000 mm

Optical data:

Emitter Light Source	Visible Red Laser
Laser safety class	2
Wavelength of Emitted Light	660 nm
diameter of beam	10 mm
Permissible ambient light	10000 Lux
Light Spot diameter	10mm at 3m
Grey shift max. (90%/18% Reflectivity)	±1.5 %

General data:

contamination indicator	LED red
Supply voltage indication	yes, green LED
Function indication	2 LED yellow
Degree of protection IP	IP 67
Insulation class	2
Protected against polarity reversal	yes
Type	Distance sensor

Wiring**www.balluff.com**

Balluff Europe: +49 7158 173-3
Balluff USA: 1-800-54 3-83 83
Balluff Asia: +86 21-50 64 41 31

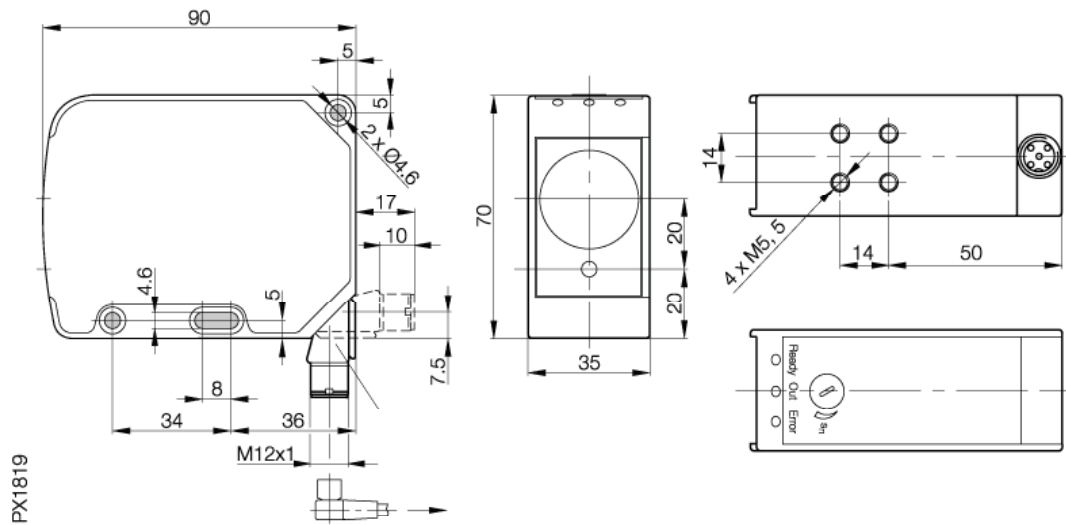
Online Productinformation
20C8-D1-24

BOD 63M-LA04-S115

Photoelectric Sensors,
Distance Sensors

PNP**Sn = 6000 mm**

BALLUFF
sensors worldwide

**Electrical data:**

Off Time delay	2 ms
On Time delay	2 ms
Analog output	0...10 V DC
Load current: capacity max. (le)	200 mA
Switching output	PNP
Operating frequency (f)	250 Hz
Current Consumption Io max. (No Load)	75 mA
Supply voltage min.	15 V
Supply voltage max.	30 V

Mechanical data:

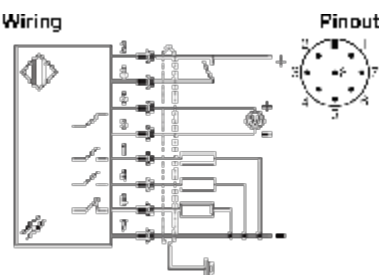
Number of wires	5
Sensing face material	Glass
Housing material	Aluminium alloy
Linearity	1 %
Operating Distance Adjustment	Potentiometer
Effective working dist. min.	200 mm
Effective working dist. max.	6000 mm
Ambient temperature max.	+60 °C
Ambient temperature min.	-10 °C
weight	260 g
Operating range max.	5000 mm

Optical data:

Emitter Light Source	Visible Red Laser
Laser safety class	2
Wavelength of Emitted Light	660 nm
diameter of beam	10 mm
Permissible ambient light	10000 Lux
Light Spot diameter	10mm at 3m
Grey shift max. (90%/18% Reflectivity)	±1.5 %

General data:

contamination indicator	LED red
Supply voltage indication	yes, green LED
Function indication	yes
Degree of protection IP	IP 65
Protected against polarity reversal	yes
Type	Distance sensor

Wiring**www.balluff.com**

Balluff Europe: +49 7158 173-3
Balluff USA: 1-800-541-3930
Balluff Asia: +86 21-50 64 41 21

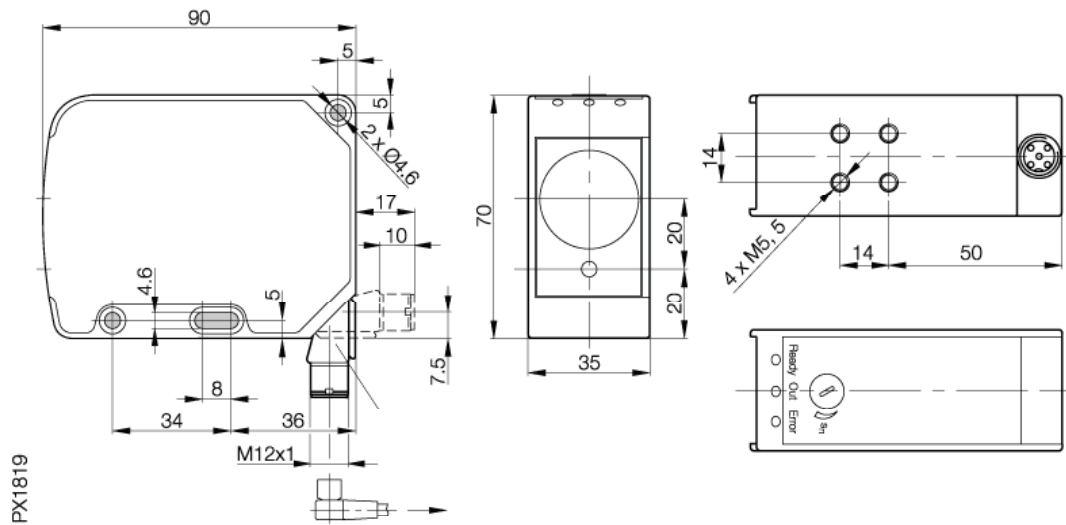
Online Productinformation
20C7-11-25

BOD 63M-LB02-S115

Photoelectric Sensors,
Distance Sensors

PNP**Sn = 2000 mm**

BALLUFF
sensors worldwide

**Electrical data:**

Off Time delay	2 ms
On Time delay	2 ms
Analog output	4... 20 mA
Load current: capacity max. (I _e)	200 mA
Switching output	PNP
Operating frequency (f)	250 Hz
Current Consumption I _o max. (No Load)	75 mA
Supply voltage min.	15 V
Supply voltage max.	30 V

Mechanical data:

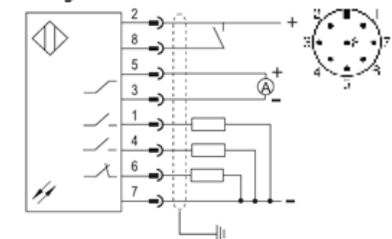
Number of wires	5
Sensing face material	Glass
Housing material	Aluminium alloy
Linearity	<2 %
Operating Distance Adjustment	Potentiometer
Effective working dist. min.	200 mm
Effective working dist. max.	2000 mm
Ambient temperature max.	+60 °C
Ambient temperature min.	-10 °C
weight	260 g
Operating range max.	2000 mm

Optical data:

Emitter Light Source	Visible Red Laser
Laser safety class	2
Wavelength of Emitted Light	660 nm
diameter of beam	10 mm
Permissible ambient light	10000 Lux

General data:

contamination indicator	LED red
Supply voltage indication	yes, green LED
Function indication	2 LED yellow
Degree of protection IP	IP 67
Protected against polarity reversal	yes
Type	Distance sensor

Wiring**www.balluff.com**

Balluff Europe: +49 7158 173-3
Balluff USA: 1-800-541-3939
Balluff Asia: +86 21-5064 4131

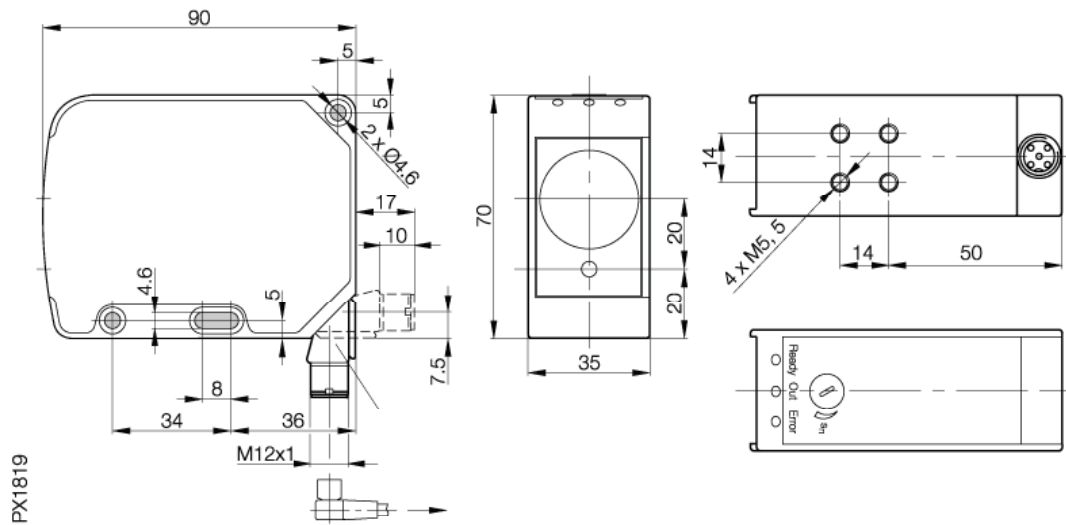
Online Productinformation
20C8-D1-24

BOD 63M-LB04-S115

Photoelectric Sensors,
Distance Sensors

PNP**Sn = 6000 mm**

BALLUFF
sensors worldwide

**Electrical data:**

Off Time delay	2 ms
On Time delay	2 ms
Analog output	4... 20 mA
Load current: capacity max. (le)	200 mA
Switching output	PNP
Operating frequency (f)	250 Hz
Current Consumption Io max. (No Load)	75 mA
Supply voltage min.	15 V
Supply voltage max.	30 V

Mechanical data:

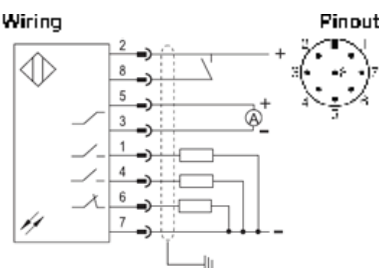
Number of wires	5
Sensing face material	Glass
Housing material	Aluminium alloy
Linearity	1 %
Operating Distance Adjustment	Potentiometer
Effective working dist. min.	200 mm
Effective working dist. max.	6000 mm
Ambient temperature max.	+60 °C
Ambient temperature min.	-10 °C
weight	260 g
Operating range max.	5000 mm

Optical data:

Emitter Light Source	Visible Red Laser
Laser safety class	2
Wavelength of Emitted Light	660 nm
diameter of beam	10 mm
Permissible ambient light	10000 Lux
Light Spot diameter	10mm at 3m
Grey shift max. (90%/18% Reflectivity)	≤1.5 %

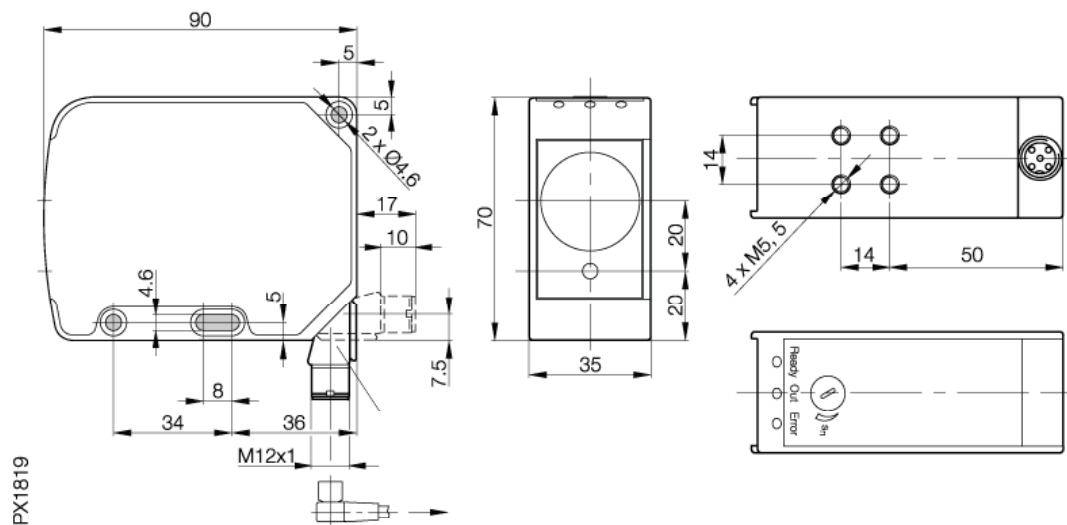
General data:

contamination indicator	LED red
Supply voltage indication	yes, green LED
Function indication	yes
Degree of protection IP	IP 65
Protected against polarity reversal	yes
Type	Distance sensor

Wiring**www.balluff.com**

Balluff Europe: +49 7158 173-3
Balluff USA: 1-800-54 3-83 83
Balluff Asia: +86 21-50 64 41 31

Online Productinformation
20C7-11-25

**Electrical data:**

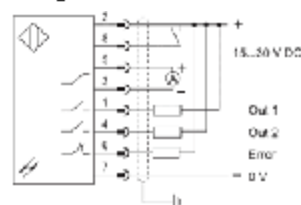
Connection	Connector M12, 8-pin
Rated supply frequency	DC
Switching element function	light-on
Rated operational voltage	24 DC V
Off Time delay	2 ms
On Time delay	2 ms
Impulse frequency	2000 kHz
Analog output	4...20 mA
Load current: capacity max. (I _e)	200 mA
Switching output	NPN
Operating frequency (f)	250 Hz
Current Consumption I _o max. (No Load)	75 mA
Supply voltage min.	15 V
Supply voltage max.	30 V

Mechanical data:

Number of wires	5
Temperature drift max.	1,5 mm/K
Degree of pollution	3
Sensing face material	Glass
Housing material	Aluminium alloy
Repeat accuracy (R)	±4 mm
Linearity max.	1 %
Operating Distance Adjustment	Potentiometer
Resolution max.	1 mm
Effective working dist. min.	200 mm
Effective working dist. max.	8000 mm
Ambient temperature max.	+60 °C
Ambient temperature min.	-10 °C
Weight	260 g

General data:

contamination indicator	LED red
Supply voltage indication	yes, green LED
Function indication	yes
Short circuit protected	yes
Degree of protection IP	IP 67
Protected against polarity reversal	yes
Type	Distance sensor

Wiring**Pinout**
www.balluff.com

Balluff Europe: +49 7158 173-3
 Balluff USA: 1-800-54 3-83 90
 Balluff Asia: +86 21-50 64 41 31

Online Productinformation
 2008-05-02