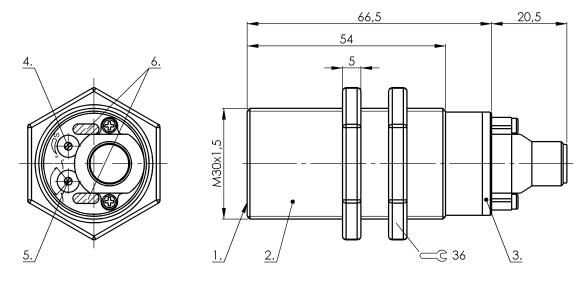
# **BALLUFF**



1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) NO or NC selectable, 6) LED function indicator









Basic features	
Approval/Conformity	CE UKCA cULus WFFF
Basic standard	IEC 60947-5-2
Scope of delivery	Nut (2x) Short guide Screwdriver
Sensitivity	Switching distance adjustable
Series	M30
Display/Operation	yes
Power indicator	yes
Electrical connection	,
Connection	M12x1-Male, 4-pin, A-coded
Number of pins	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

FL	octr	ical	data
	CULI	IGai	uata

No-load current Io max. at Ue	18 mA
Operating voltage Ub	1035 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	300 mA
Ripple max. (% of Ue)	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	1.8 V

#### **Environmental conditions**

Ambient temperature Contamination scale IP rating	-3070 °C 1 IP66, IP64 at connector output
Functional safety	
MTTF (40 °C)	455 a
Interface	
Switching output	PNP NO/NC programmable
Material	
Cover material	PBT

PΕ

PBT PBT

Housing material

Material sensing surface

# BCS M30BBM2-PPM20C-S04G Order Code: BCS004M



#### Mechanical data

 Dimension
 Ø 30 x 87 mm

 Installation
 for flush mounting

 Size
 M30x1.5

 Thread (A)
 M30x1.5

 Tightening torque
 4 Nm

#### Range/Distance

Hysteresis H max. (% of Sr) 15.0 %

Measuring range 1...20 mm

Rated operating distance Sn 20 mm

Repeat accuracy max. (% of Sr) 5.0 %

Temperature drift max. (% of Sr) 20 %

#### Remarks

The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

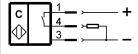
If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output. For more information about MTTF and B10d see MTTF / B10d Certificate

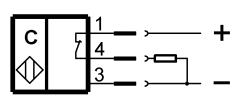
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

# **Connector Drawings**



# Wiring Diagrams (Schematic)





### Installation remarks

