

SERIES

GL

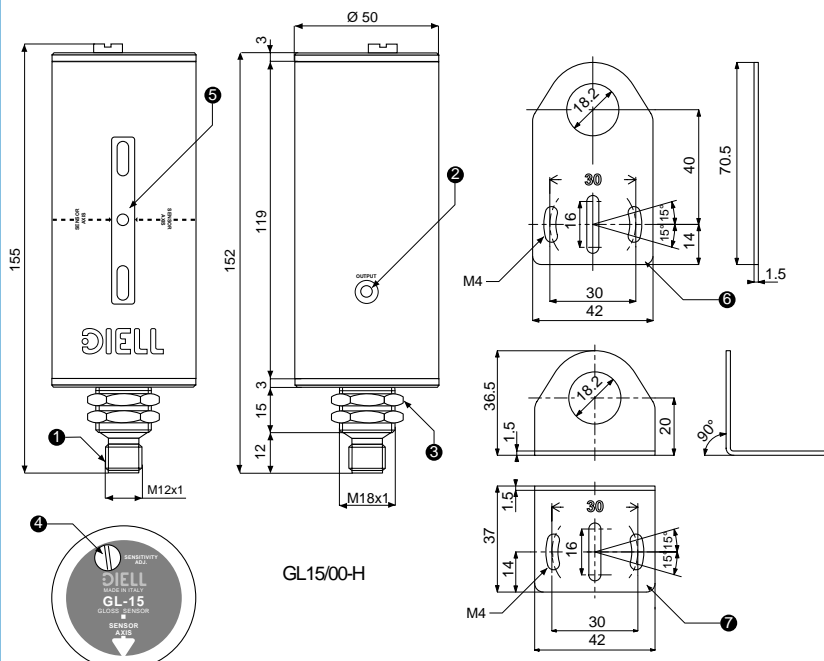


Matt/gloss surface sensors - DC

- ◆ Capable to detecting the difference between gloss and matt surfaces
- ◆ Optical triangulation sensing mode
- ◆ Red light emission with visible spot
- ◆ Fine sensitivity adjustment (10 turns trimmer)
- ◆ Innovative housing (patented)
- ◆ Fast installation provide by standard M18x1
- ◆ Standard M12 connector exit
- ◆ DECOUT® output (NPN-PNP-NO-NC)
- ◆ IP67 protection degree
- ◆ Complete protection against electrical damage



DIMENSIONAL DRAWING



Key

- 1 M12 plug-in exit
- 2 Red LED (output activated)
- 3 Mounting and tightening assembly (metal nuts supplied)
- 4 Protection screw (remove the screw to adjust sensitivity)
- 5 Optical windows
- 6 Axial mounting bracket ST18-A, included
- 7 90° mounting bracket ST18-C, included

Connector **CD12L/0B-050A0** included

Capable to detect difference between gloss and matt surface

The GL sensor is capable of detecting the difference between a gloss and a matt surface. This is performed using optical triangulation. Therefore representing a unique solution to surface detection.

Fine sensitivity adjustment

RED emission with visible spot

For fast installation and precise regulation.

LED output indicator

Innovative housing

The innovative housing (patented) permits fast mounting with M18 fixing. The M12 connector allow easy maintenance.

DECOUT® output

The exclusive DIELL® multifunctional NPN-PNP-NO-NC output for stock reduction.

ORDERING SYSTEM

	GL 15 / 00 - H			
series	GL		H	
surface detection sensor			M12 plug-in exit	
model	15		0	
sensing distance 20mm			NPN/PNP output	
output state	0			
NO/NC output				

SPECIFICATIONS

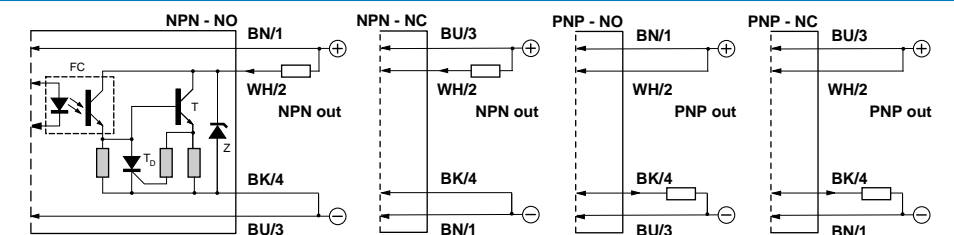
Model	GL15/00-H
Nominal sensing distance S_n ⁽¹⁾	20mm +50 / -25%
Sensitivity adjustmeny	10 turns trimmer
Emission	red (660nm)
Differential travel	≤10%
Repeat accuracy	5%
Operating voltage	10,8-30Vdc
Ripple	≤10%
No-load supply current	40mA
Load current	≤100mA
Leakage current	≤10μA
Voltage drop	1,2Vmax. $I_L=100mA$
Output type	NPN or PNP, NO or NC
Switching frequency	500Hz
Time delay before availability	100ms
Supply electrical protections	transient
Output electrical protections	short circuit (with hold)
Temperature range	-25...+55°C (without freeze)
Temperature drift	10% S_r
Interference to external light	2000lux (incandescent lamp), 5000lux (sunlight)
Protection degree (DIN 40 050)	IEC IP67
LED indicators	red (output activated)
Housing material	black PVC, nickeel-plated brass (cable exit)
Lenses material	transparent PMMA
Tightening torque	5Nm
Weight (approx.)	500g

(1) with a sheet of glass, 3mm thickness

3.

WIRING DIAGRAMS

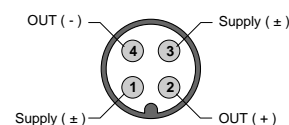
DECOUT® output



In case of combined load, i.e. resistive and capacitive, the maximum admissible load is 0,1 μF for max. output voltage and current

CONNECTORS

M12 (H type)



CHARACTERISTIC CURVES

