OPTEL TEXYS PARIS

OPTICAL SPEED SENSOR
152G6 - 100 KHz

APPLICATIONS
- Recommended sensor for instantaneous speed measurement, top lap detection
- Embedded measurement in harshes environments : ATEX, EMC, T°, Liquids
- Heavy industry, shipbuilding, mining, special machinery and vehicle

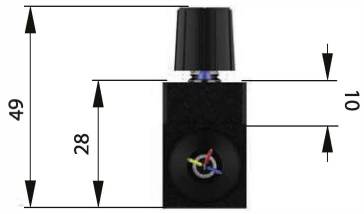
WORKING DISTANCE	
Diffuse reflection (function encoding and Albedo)	1mm < **D** < 20mm (black and white stripes)
Through-beam	60mm / more with objectives lens

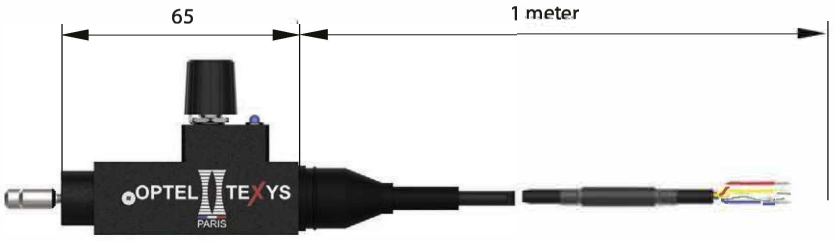
ELECTRICAL SPECIFICATIONS	
Transmitters	LED near IR+ visible
Supply voltage	From 9 to 30Vcc
Average current consumption (12Vcc)	120 mA
Possible inrush current / Duration	>1 Amp. / Less than 10 microsec.
Receiver (sensible to the light)	High-speed Photodiode
Switching Frequency	0<**F**<100 kHz
Switching time (10 - 90%)	Rise time < 100 nanosec. Fall time ≤ 1 microsec.
Power Adjustment	¾ turn Potentiometer
Connection	1,5 m cable+ Plug & Play Connector
Standard Output / Options	PNP TTL / RS485
Accessories Output	Additionnal TTL via SMA / On specification
Output control	Blue LED + top of fibre visible light patented concept
Amplifier Operating temperature	From -10 °C To +70°C
Protection	Temporary short-cut

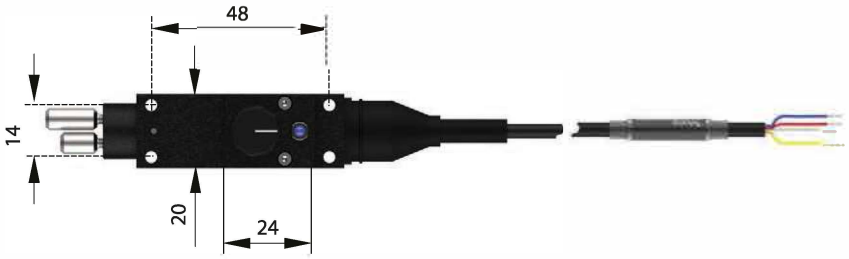
MECHANICAL SPECIFICATIONS	
Box	Anodized AU4G, standard in black
Mass	150 gr
Dimension, Fixation	14X48 mm, 4 x holes Ø 3mm

RECOMMENDED PROBES	
Diffuse reflection standard / slit ending fibre probe	Multi YO / Multi SLIT YO
Through-beam standard / slit ending fibre probe	Multi FFO / Multi SLIT FFO
Standard temperature Range	Long life: -5°C to +80°C
Limit temperature Range	Limits: -50°C to +120°C
High Temperature probe	On Specification

These characteristics are not of contractual matters. OPTEL-TEXYS keeps the right to proceed to alterations of improvements without any previous notice. The Products should only be used for prototype testing and measurement purposes on Buyer's internal test vehicles and vehicle simulators, and, for avoidance of doubt, should not be installed on any vehicle that is not a Buyer internal test vehicle or vehicle simulator and should not be used for online condition monitoring.







Probe separatly sold
MULTI YO HM6x20 SURG R

Fixing optical probe on sensor

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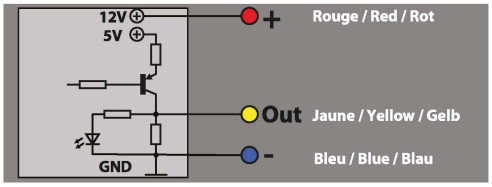

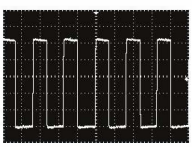

Material		
Anodized aluminium		20210215

Reference

152 G6