

152G7-E

Optical speed sensor, 300 kHz

SN: OSXXXXXXXX

Optel-Texys sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

Measurements features			
Diffuse reflection (function encoding and Albedo)		1 < D < 10 (B&W stripes)	mm
Through-beam		50	mm
Electrical features			
Transmitters		850nm + 660nm	
Supply Voltage	5V version(1)	5.000±0.020	V
	12V version	7 to 30	V
Average current consumption (12Vcc)		<45	mA
Possible inrush current and duration		>1	A
		<10	µs
Receiver		Si PIN photodiode	
Switching frequency		0 < F < 300	kHz
Commuting time (10% – 90%)	Rise time	50	ns
	Fall time	50	ns
Sensor setting		Automatic threshold and gain control	
Voltage output		TTL	
Target indicator		White LED + top of fiber visible light patented concept	
Protection		Temporary short-cut	
Mechanical features			
Box		Anodized AU4G, standard in black	
Mass		65	g
Dimension		18.80x18.80x52.42	mm
Environmental features			
Protection		IP64	
Vibration test		20Gpp 5'	
Shock		500	G
Amplifier operating temperature		-10 to +70	°C
Storage temperature		-20 to +80	°C

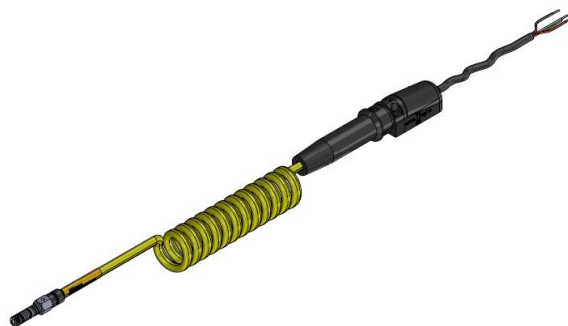
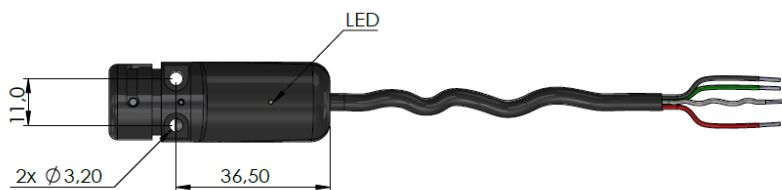
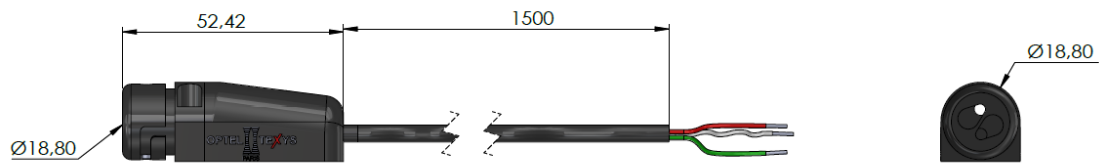
(1) The 5V version is not regulated.

Date		Operator	
Customer			
Order			
Ref	152G7-E-XXV-XXX		

Cable		
<input checked="" type="checkbox"/> Default 4x26AWG FEP tinned copper braided cable 250V 200°C Length: 1500 mm ±10% Tubing: None Optional Connector: - RV4: Lemo FGG.00.304.CLAD35 for Siemens RV4 acquisition module, foolwing pinout below - Other on request		
Color	Function	Pin
Red	Supply	2
Green	Signal	4
Black	GND	1
White	GND	3
Braid		-

Recommended probes features		
Diffuse reflection standard / Slit ending fiber probe	Multi YO / Multi SLIT YO	
Through-beam standard / Slit ending fiber probe	Multi FFO / Multi SLIT FFO	
Standard temperature range	-5 to +80	°C
Limit temperature range	-50 to +120	°C
High temperature probe	On specification	°C

Mechanical drawing



Ordering information

Ordering ref: 152G7-E – <u>Supply - Connecteur</u> Optionnal connecteur: RV4: Lemo FGG.00.304.CLAD35 5V: 5V supply 12V: 12V supply	ex: 152G7-E-12V
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