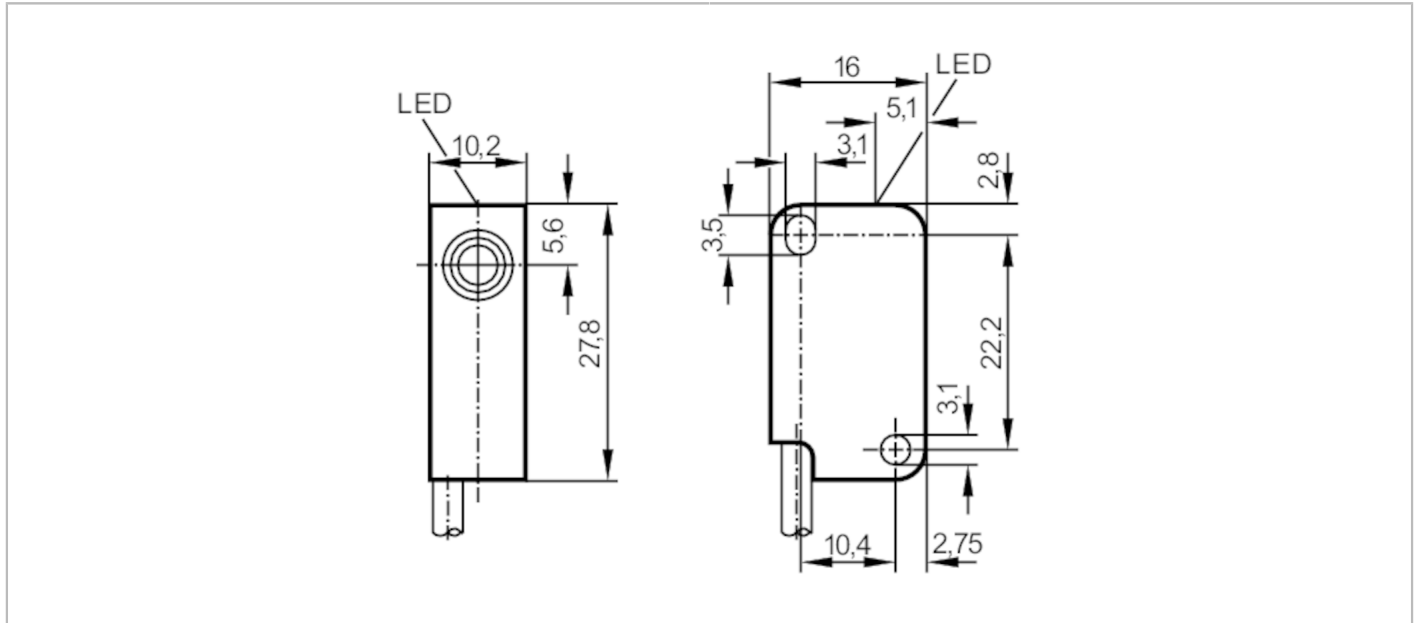


# IS5026



## Inductive sensor

IS-2002-FRKG/PH



### Product characteristics

Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	2
Housing		rectangular
Dimensions	[mm]	28 x 10 x 16

### Electrical data

Operating voltage	[V]	5...36 DC
Protection class		III
Reverse polarity protection		yes

### Outputs

Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	0.8
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Overload protection		yes

### Detection zone

Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62

# IS5026



## Inductive sensor

IS-2002-FRKG/PH

Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis [% of Sr]	1...15	
Switch point drift [% of Sr]	-10...10	
Operating conditions		
Ambient temperature [°C]	-25...80	
Protection	IP 67	
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
MTTF [years]	2460	
UL approval	Ta	-25...75 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight [g]	37.4	
Housing	rectangular	
Mounting	flush mountable	
Dimensions [mm]	28 x 10 x 16	
Materials	PBT	
Tightening torque [Nm]	< 0.5; (with washer)	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Remarks		
Pack quantity	1 pcs.	

# IS5026



## Inductive sensor

IS-2002-FRKG/PH

### Electrical connection

Cable: 2 m, PUR; 2 x 0.14 mm<sup>2</sup>

### Connection



Core colours :

BK = black  
WH = white