

Features

MEMS sensing unit  
Analog output (0.5V to 4.5 V)  
Single, dual and triaxial  
Input: 7...36 VDC

Small size -Low weight  
Low price  
Low power consumption  
IP 67 (Epoxy resin filling)

Application Fields

Vibration testing  
Mobile automation  
Structural Monitoring

## ACP-T1-HXXXX-A/B

Single, dual and triaxial accelerometers  
with analog output

MEMS Accelerometers



ACP-T1-HXXXX-A



ACP-T1-HXXXX-B

Model ACP-T1-H0010 is a low weight and small size accelerometer with a range of 1, 5, 18, 100, 250 and 500g's, analog output available in a weatherproof aluminium or plastic housing. Its technology is based on a last generation MEMS (Micro Electro Mechanical Systems) capacitive sensing unit.

Typical applications could be found in test activities such as vibration and modal analysis or structural monitoring.

# ACP-T1-H0010

high precision single axis 360° tilt sensor with CANBUS interface



DR Italia S.r.l.  
Via Danimarca, 8b  
20093 Cologno Monzese  
Milano ITALY



## 5 WIRE S

RED	Supply Voltage	BLK	Y Axis Vout
GRN	X Axis Vout	BLU	Gnd
YEL	Z Axis Vout		

Connections

## CASE

Plastic case: ABS (standard)

Metallic case: Aluminum (optional)

Other: (on request)

## CONNECTIONS

WIRE: 5 wires (standard)

CONNECTOR: M12 -5 pins cable output (optional)

Other: AMP Superseal®, Deutsch connector (on request)

MOUNTING: Flanges differing from the ones shown in the drawings are available upon request

Choices

Specifications

Tilt measuring range	g	± 1, ± 5, ± 18, ± 100, ± 250 and ± 500
Input	VDC	+ 7 ... + 36
Output	V	0.5 ... 4.5
Non-linearity	% FSO	± 0.2
Cross-Axis Sensitivity	%	< 2
Noise Density	10 to 400 Hz	± 1g ... ± 18g (100µg/VHz) ± 100g ... ± 500g (3 mg/VHz)
Temperature range	° C	-40 ... +85
Temperature zero drift	mg/°C	± 1g ... ± 18g (1mg/°C) ± 100g ... ± 500g (5 mg/°C)
Temperature sensitivity drift (temp. comp. range)	% FSO/°C	< 0.002
Material		ABS top, ABS bottom (standard) ABS top, Aluminum bottom (optional) Aluminum case
IP protection		IP 67
Certifications		CE marking acc EMC dir 89/336/EEC and LVD 72/23/EEC

Dimensions And Positioning



ACP-T1-HXXXX-A



ACP-T1-HXXXX-B

APPROX MAX DIM IN mm (W X L X H)

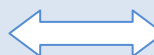
(15 X 15 X 10) W/O FLANGE

REF. TO DETAILED DWG ACP-T1-HXXX-A

MAX DIM IN mm (W X L X H)

(35 X 35 X 12) W/O FLANG (52 X 35 X 15) W FLANGE

REF. TO DETAILED DWG ACP-T1-HXXX-B



X AXIS



Y AXIS



Z AXIS

HORIZONTAL MOUNTING: AXES SHOWN IN PICTURE ABOVE