

Badotherm model BDT34 series is available as 63 mm dia. This pressure gauge has a built in micro switch with gold contacts. The gauge has standard stainless steel internals. Switching point is fixed and set at the factory with an accuracy upto the setpoint  $\pm 1.6\%$  and after the setpoint  $\pm 4\%$ . The switch point accuracy is  $\pm 2\%$  on decreasing pressure (contact opens on a fall in pressure) and  $\pm 7\%$  on increasing pressure (contact closes on a rise in pressure).

**pressure gauge with built in microswitch**



**BDT34**

**mounting variations**

- type A bottom connection, direct mounting
- type B panel mounting, clamp fixing, back connection
- type C surface mounting, bottom connection
- type D back connection, direct mounting
- type E panel mounting, back connection
- type F panel mounting, bottom connection

**technical specification model BDT34**

<b>diameter</b>	<b>connection</b>	<b>window</b>	<b>ranges</b>
63 mm	1/4" BSP/NPT	plastic	from 16/400 bar
<b>casing</b>	<b>tube</b>	<b>movement</b>	<b>dial</b>
AISI304 bayonet	AISI316	brass	aluminium
<b>bezel</b>	<b>socket</b>	<b>pointer</b>	<b>accuracy</b>
AISI304 bayonet	AISI316	fixed	1.6% FSD

Note: microswitch SPDT with gold plated contacts and with rating 0.1A/ 30Vdc special male and female plug CuZn with gold plated pins. accuracy 1,6% up to the setpoint

**options and special executions at extra cost**

window	safety glass
dials	customized – i.e., non standard ranges or logos
certificates	calibration -; conformity -; material.
manuals	installation and maintenance
connection	METRIC; BSPT; acc JIS in various sizes
restrictor	AISI316
connection position	top or side
single cable	type BDT34-01
switch	IP67 of IEC protective construction classification
switching norm	according to EN12094-10

## BDT34 - technical data sheet

### pressure details

#### working pressure

Steady	full scale value
Fluctuating	0,9 x full scale value
Short time	see over-pressure table

#### pressure element

	<100 bar	≥ 100 bar
BDT34	AISI316	AISI316

#### over-pressure

max. scale in bar		over-pressure at 20 °C
-1 to 100		1,25 x full scale value
101 to 600		1,15 x full scale value

Note : only withstand for a short period of time

### temperature details

#### temperature limitations

	ambient	process
standard	-40 °C to 60 °C	200 °C

The variation of indication caused by the effects of temperature shall not exceed :

$\pm 0,04 \times (\text{ambient temperature} - \text{reference temperature})\%$   
of the span

### design information

#### ingress protection

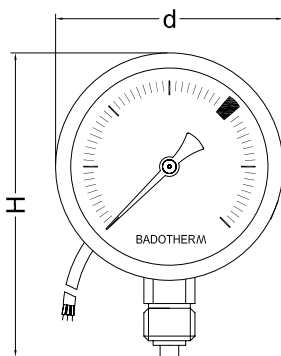
IP 65 per EN 60 529 / IEC 529

IP 54 per EN 60 529 / IEC 529 (BDT34-01 only)

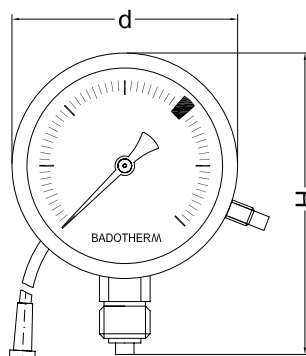
#### design

EN 837-1

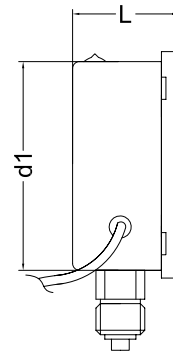
### drawings



type A with cable  
BDT34-01



type A with connectors  
BDT34



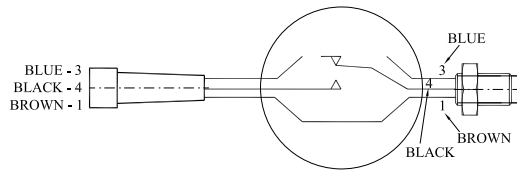
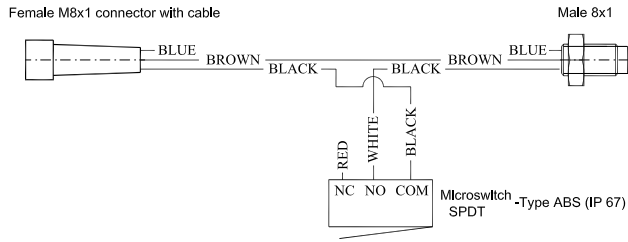
type A

### dimensions

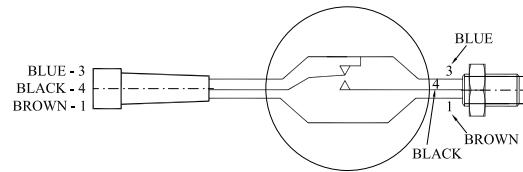
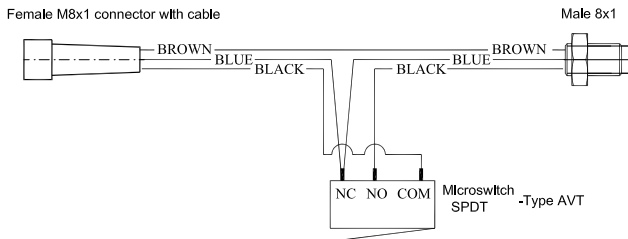
ns	d	d1	L	H	h	weight
63	68	63	50	87	-	0,2 kg

Note : dimensions are in mm

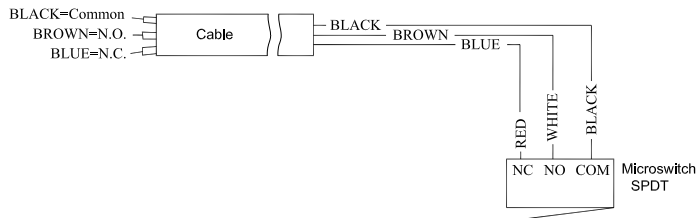
# BDT34 - technical data sheet



wiring BDT34 with microswitch ABS type



wiring BDT34 with microswitch AVT type



wiring BDT34-01 with microswitch ABS, AVT type