

The BDT34 Fire Eater execution is based on Badotherm’s standard pressure gauge model BDT34 and manufactured according to the EN837-1. The specifications for the Fire Eater execution are detailed in this data sheet. This execution is manufactured under UL listing 15566.



DESIGN INFORMATION

DESIGN NORM	INGRESS PROTECTION
EN 837-1	IP 67 per IEC 60529

STANDARD MODEL MATERIAL SPECIFICATIONS

PROCESS CONNECTION	TUBE	CASE	BEZEL
AISI 316(L)	AISI 316	AISI 304, bayonet	AISI 304, bayonet
MOVEMENT	WINDOW	POINTER	DIAL
brass	hardened glass	aluminium, yellow painted	aluminium, white with black markings

TECHNICAL SPECIFICATIONS

	250 bar (25 MPA)	400 bar (40 MPA)
Diameter	63mm	63mm
Connection	1/4" BSP	1/4" BSP
Minimum range	0 bar	0 bar
Maximum range	250 bar (25 MPA)	400 bar (40 MPA)
Accuracy before setpoint	1.6% FSV	1.6% FSV
Accuracy after setpoint	4.0% FSV	4.0% FSV
Accuracy of micro switch	2.0% FSV	2.0% FSV
Pointer	fixed	fixed
Mounting variations	A	A
Connection construction	screwed	screwed
Blow out	on the back	on the back
Compensation plug, material	on the back, HNBR	on the back, HNBR
Window gasket	NBR	NBR
Wiring	SPDT	SPDT
Female connector	M8x1	M8x1
Male connector	M8x1	M8x1
Cable	PUR Halogen free	PUR Halogen free
Switch	UL listed	UL listed

SWITCH POINT SPECIFICATIONS

	250 bar (25 MPA)	400 bar (40 MPA)
Switch point falling	166 bar (16.6 MPA)	249 bar (24.9 MPA)
Switch point rising	1.1 x switch point falling	1.1 x switch point falling
Switch falling		
Lower range value	161 bar (16.1 MPA)	241 bar (24 MPA)
Upper range value	171 bar (17.1 MPA)	257 bar (25.7 MPA)
Switch rising		
Lower range value	178 bar (17.8 MPA)	266 bar (26.6 MPA)
Upper range value	188 bar (18.8 MPA)	282 bar (28.2 MPA)

PRESSURE DETAILS

WORKING PRESSURE

	63 mm
steady	0.75 x full scale value
fluctuating	0.67 x full scale value
short time	full scale value

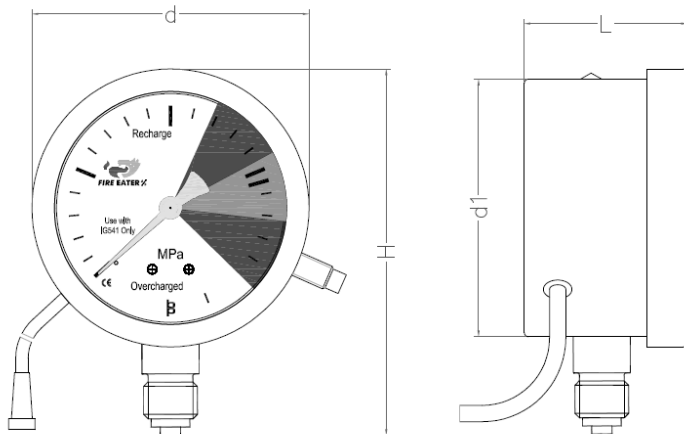
TEMPERATURE DETAILS

CASE FILLING FLUID			WINDOW		GASKETS	
		ambient	process		ambient	
-	without	-40°C to 60°C	200°C	hardened glass	<400°C	window NBR <100°C fill plug HNBR <150°C

TEMPERATURE EFFECT

The variation of indication caused by the effect of temperature shall not exceed:
 $\pm 0.04 \times (\text{ambient temperature} - \text{reference temperature})\% \text{ of the span}$

DRAWINGS

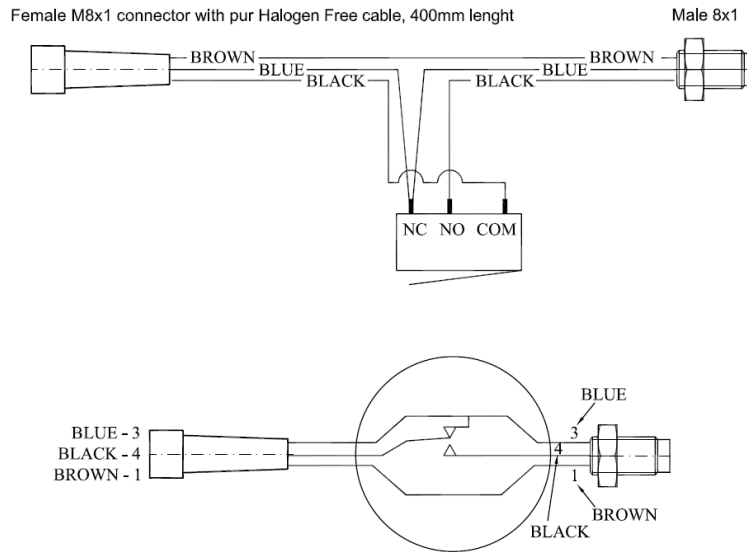


DIMENSIONS

ns	d	d1	L	H	weight
63	68	63	42	89	0.2 kg

All dimensions in mm

WIRING WITH SPDT MICRO SWITCH



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