IEG-TC1+T
IEG-TC2+T

ELECTROMAGNETIC LEVEL INDICATOR WITH ONE CONTACT, THERMOSTAT AND 1" GAS CONNECTION

USE:
Designed to ensure minimum or maximum liquid level and temperature control in tanks with maximum safety.
Suitable for tanks containing liquids compatible with the brass tube, such as hydraulic or lubricating oils (provided their viscosity does not exceed 220 cSt), petroleum products, etc.

OPERATION:
When the float, during its travel, reaches the built-in reed switch at the preset point, the contact, activated by the magnet housed in the float, opens or closes, allowing a remote signal to be sent.
In addition, when the liquid temperature inside the tank reaches the thermostat's set value, the thermostat contact opens or closes, enabling the transmission of a further remote signal.

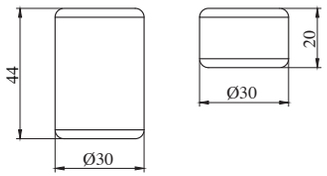
ASSEMBLY:
The indicator must be installed in a vertical position, ensuring that the float remains at least 35 mm away from ferrous surfaces (walls, tanks, etc.).

Maximum Pressure: 10 bar

DATA AND TECHNICAL ORDER

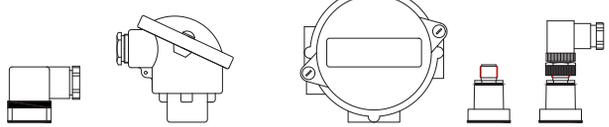
FLOATS

1 - 2 - 3 4



ELECTRICAL CONNECTIONS

0 1 2 5 6



ELECTRICAL DATA

ELECTRICAL CONTACTS

ELECTRICAL CONTACTS	ELECTRICAL CHARACTERISTICS				
	DC SWITCHABLE POWER	AC SWITCHABLE POWER	A.C. CURRENT INTENSITY	SWITCHABLE VOLTAGE	SWITCHABLE VOLTAGE WITH M12
SPST	80 W	80 V.A.	1,3 A	250 VDC	60 VDC
				250 VAC	60 VAC
SPDT	60 W	60 V.A.	1 A	230 VDC	60 VDC
				230 VAC	60 VAC

THERMOSTAT

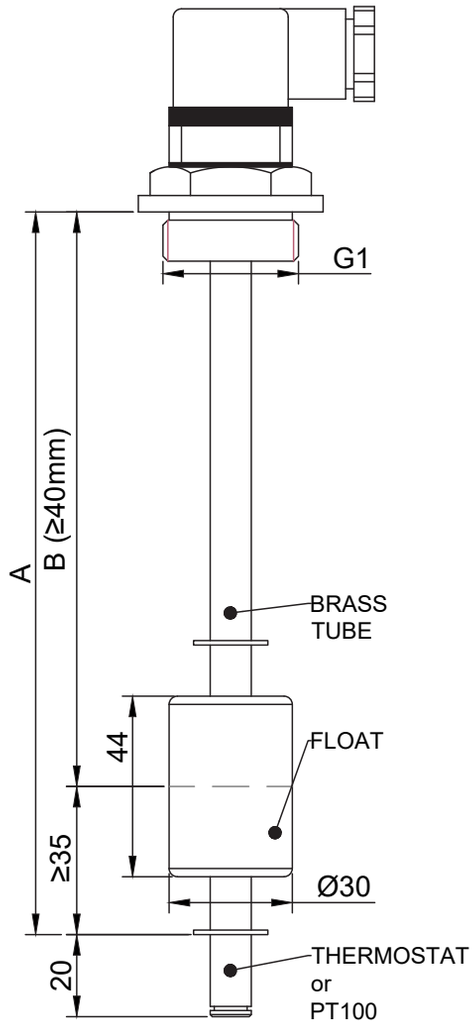
VOLTAGE	250V. COMMUTABLE
FREQUENCY	50Hz
LOAD VALUE	4,0A. Cos ϕ = 0,6 (I M OT)
MAX. LOAD	6,3A. Cos ϕ = 1,0 (I N)
COMMUTATING TEMPERATURE	10A. Cos ϕ = 1
CONTACTS	50°C - 60°C - 70°C - 80°C
TOLERANCES	± 5°C

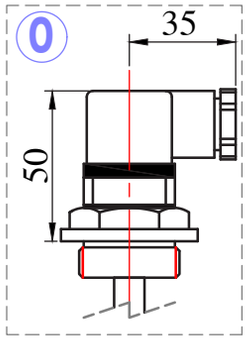
MODEL				LENGTH "A"	CHECKPOINT "B"				ELECTRICAL CONNECTION		FLOAT		OPERATING TEMPERATURE		TEMPERATURE SENSOR		LENGTH OF CABLE (POTENTIAL)	
	CONTACT TYPE	N° CHECKPOINT	PROCESS CONNECTION		QUOTE	NATURE												
IEG-TC1+T	SPST	1	1" BSP ANODIZED ALUMINUM	≥ 75mm	≤ (A - 35)mm	C	N.C. IN THE PRESENCE OF LIQUID (TC1+T)		0	CONNECTOR IP65 (solo TC1+T)	1	NYLON Ø30X44	S	-20…+80°C	1	PT100*	L=	WITH PVC OR SILICONE CABLE
									1	6 POLES - ALUMINUM HEAD IP68					2	50°C - NO		
									2	10 POLES - ALUMINUM HEAD IP65	2	NBR Ø30X44			3	60°C - NO		
						O	N.O. IN THE PRESENCE OF LIQUID (TC1+T)		3	PVC CABLE -20°C…+80°C					4	70°C - NO		
IEG-TC2+T	SPDT								4	SILICONE CABLE -20°C…+120°C	3	P.P. Ø30X44	H	-20…+120°C	5	80°C - NO		
						S	EXCHNGE (TC2+T)		5	M12x1 CONNECTION					6	50°C - NC		
															7	60°C - NC		
									6	M12x1 CONNECTION + CONNECTOR IP67	4	NBR Ø30X20			8	70°C - NC		
															9	80°C - NC		
IEG-TC1+T				75	40	C			3		1		S		2		L=1000	

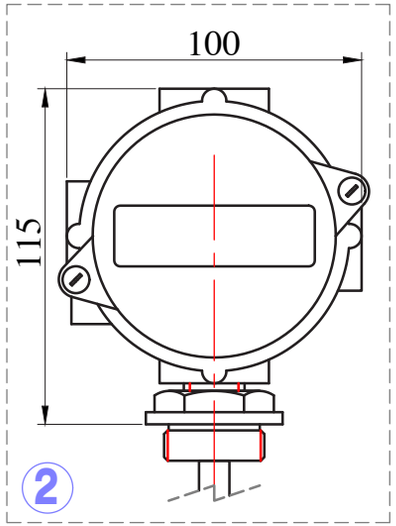
* EXCLUDING ELECTRICAL CONNECTION 0

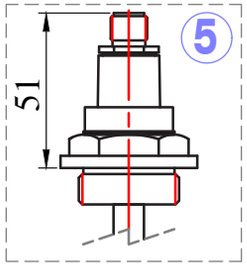
IEG-TC1+T
IEG-TC2+T

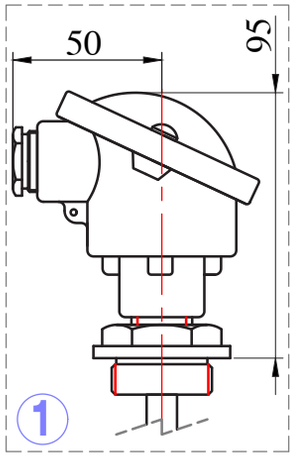
ELECTRICAL CONNECTIONS

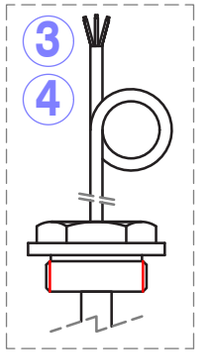


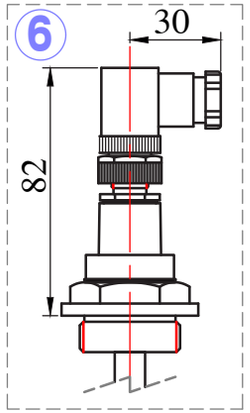






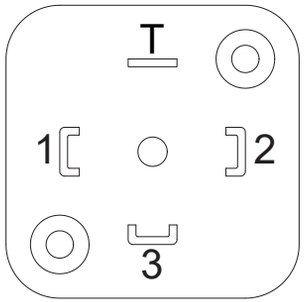






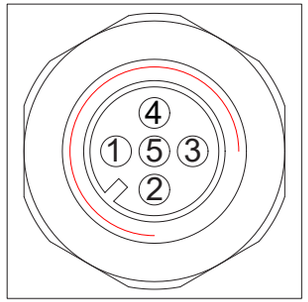
ELECTRICAL CONNECTION TABLE TC1+T E TC2+T

Connector CE EN
175301-803-A IP65 PG9/11
(electrical connection **0**)



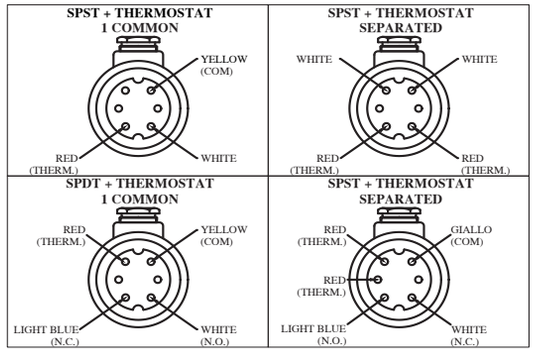
3 POLES + T	
SPST (TC1+T) WITH COMMON	
2	3 COMMON
1	

Circular Connector 5P
M12 EN 60529 IP67
(electrical connection **5**)



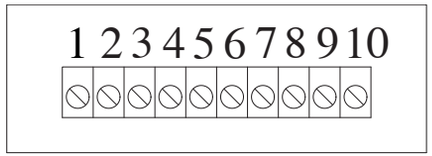
M12 5 POLES		M12 5 POLES
SPST (TC1+T) WITH COMMON		SPST (TC1+T) SEPARATE CONTACTS
1 COMMON	2	1-2
	3	3-4

Aluminum Head IP68
(electrical connection **1**)



6 POLES			
SPST (TC1+T) WITH COMMON			SPST (TC1+T) SEPARATE CONTACTS
YELLOW COMMON	WHITE		WHITE WHITE
	RED		RED RED
SPDT (TC2+T) WITH COMMON			SPDT (TC2+T) SEPARATE CONTACTS
YELLOW COMMON	WHITE N.C. LIGHT BLUE N.O.		YELLOW COM. WHITE N.C. LIGHT BLUE N.O.
	RED		RED RED

Aluminum Head IP65
(electrical connection **2**)



10 POLES			
SPST (TC1+T) WITH COMMON			SPST (TC1+T) SEPARATE CONTACTS
1 COMMON	2		1 - 2
	3		3 - 4
SPDT (TC2+T) WITH COMMON			SPDT (TC2+T) SEPARATE CONTACTS
1 COMMON	2 - N.C. 3 - N.O.		1 - COM 2 - N.C. 3 - N.O.
	4		4 - 5

N.B.: the nature of the contact is considered in the presence of liquid

IEG-TCMM+T
IEG-TCMS+T

ELECTROMAGNETIC LEVEL INDICATOR WITH TWO CONTACTS, THERMOSTAT AND 1" GAS CONNECTION

USE:
Designed to ensure minimum or maximum liquid level and temperature control in tanks with maximum safety.
Suitable for tanks containing liquids compatible with the brass tube, such as hydraulic or lubricating oils (provided their viscosity does not exceed 220 cSt), petroleum products, etc.

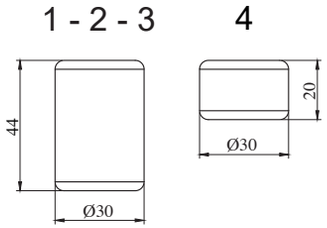
OPERATION:
When the float, during its travel, reaches the built-in reed switch at the preset point, the contact, activated by the magnet housed in the float, opens or closes, allowing a remote signal to be sent.
In addition, when the liquid temperature inside the tank reaches the thermostat's set value, the thermostat contact opens or closes, enabling the transmission of a further remote signal.

ASSEMBLY:
The indicator must be installed vertically, ensuring that the float remains at least 35 mm away from ferrous surfaces (walls, tanks, etc.).
The IEG-TCMS+T level switch, with separate contacts or a common terminal, requires an aluminium connection head containing the appropriate number of terminals (6, 8 or 9).
Alternatively, an M12 connector can be used with two SPST contacts (TCMM) and the thermostat with a common terminal.

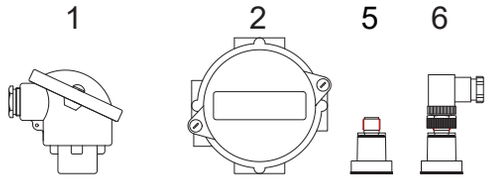
Maximum Pressure: 10 bar

DATA AND TECHNICAL ORDER

FLOATS



ELECTRICAL CONNECTIONS



ELECTRICAL DATA

ELECTRICAL CONTACTS

ELECTRICAL CONTACTS	ELECTRICAL CHARACTERISTICS				
	DC SWITCHABLE POWER	AC SWITCHABLE POWER	A.C. CURRENT INTENSITY	SWITCHABLE VOLTAGE	SWITCHABLE VOLTAGE WITH M12
SPST	80 W	80 V.A.	1,3 A	250 VDC	60 VDC
				250 VAC	60 VAC
SPDT	60 W	60 V.A.	1 A	230 VDC	60 VDC
				230 VAC	60 VAC

THERMOSTAT

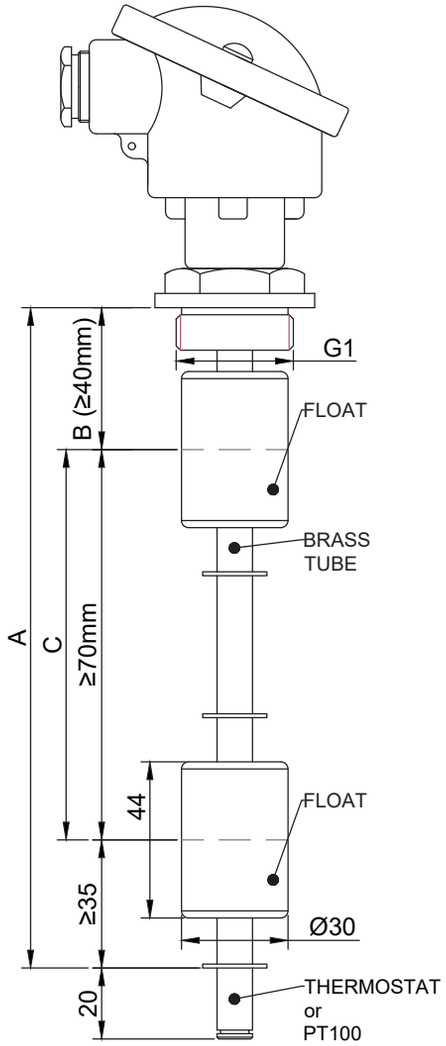
VOLTAGE	250V. COMMUTABLE
FREQUENCY	50Hz
LOAD VALUE	4,0A. Cos ϕ = 0,6 (I M OT)
MAX. LOAD	6,3A. Cos ϕ = 1,0 (I N)
COMMUTATING TEMPERATURE	10A. Cos ϕ = 1
CONTACTS	50°C - 60°C - 70°C - 80°C
TOLERANCES	± 5°C

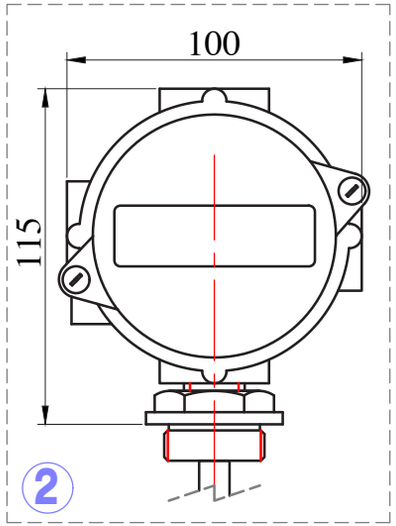
MODEL				LENGTH "A"	CHECKPOINT "C"			CHECKPOINT "B"			ELECTRICAL CONNECTION		FLOAT		OPERATING TEMPERATURE		WIRING		TEMPERATURE SENSOR		LENGTH OF CABLE (POTENTIAL)	
	CONTACT TYPE	N° CHECKPOINT	PROCESS CONNECTION		QUOTE	NATURE		QUOTE	NATURE													
IEG-TCMM+T	SPST	2	1" BSP ANODIZED ALUMINUM	≥ 145 mm	≤ (A - 35)mm	C	N.C. IN THE PRESENCE OF LIQUID (TCMM+T)	≤ (C - 70)mm *WITH FLOAT 1-2-3	C	N.C. IN THE PRESENCE OF LIQUID (TCMM+T)	1	6 POLES - ALUMINUM HEAD IP68	1	NYLON Ø30X44	S	-20…+80°C	1	1 COMMON	1	PT100	L=	WITH PVC O SILICONE CABLE
											2	10 POLES - ALUMINUM HEAD IP65							2	50°C - NO		
						O	N.O. IN THE PRESENCE OF LIQUID (TCMM+T)		O	N.O. IN THE PRESENCE OF LIQUID (TCMM+T)	3	PVC CABLE -20°C…+80°C (TCMM+T)	2	NBR Ø30X44					3	60°C - NO		
IEG-TCMS+T	SPDT																		4	70°C - NO		
											4	SILICONE CABLE -20°C…+120°C (TCMM+T)	3	P.P. Ø30X44	H	-20…+120°C	S	SEPARATED	5	80°C - NO		
						S	EXCHANGE (TCMS+T)	≤ (C - 35)mm *WITH FLOAT 4	S	EXCHANGE (TCMS+T)	5	CONNECTION M12x1 (TCMS+T 1COMUNE)							6	50°C - NC		
																			7	60°C - NC		
											6	M12x1 CONNECTION + CONNECTOR (TCMS+T IP67	4	NBR Ø30X20					8	70°C - NC		
																			9	80°C - NC		
IEG-TCMM+T				145	110	C		40	C		3		1		S		1		2		L=1000	

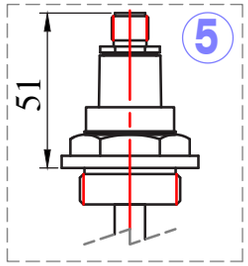
F.lli Giacomello

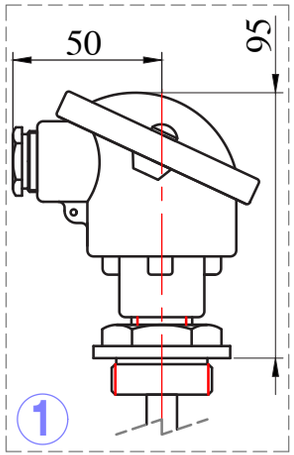
IEG-TCMM+T
IEG-TCMS+T

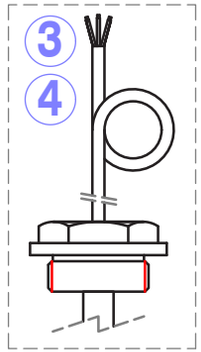
ELECTRICAL CONNECTIONS

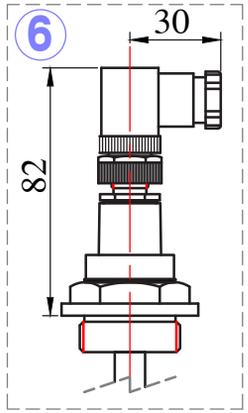






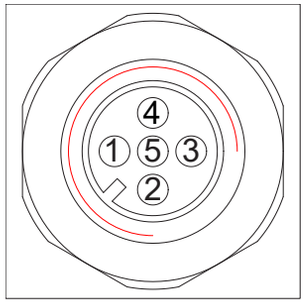






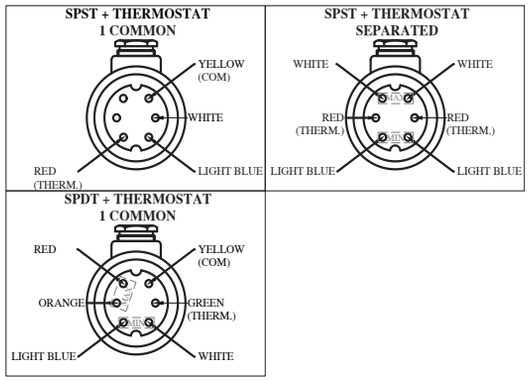
ELECTRICAL CONNECTION TABLE TCMM+T E TCMS+T

Circular Connector 5P
M12 EN 60529 IP67
(electrical connection **5**)



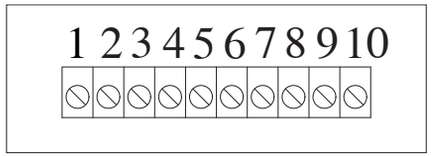
M12 5 POLES		
SPST (TCMM+T) WITH COMMON		
1 COMMON	3	B
	2	C
4 - 5		

Aluminum Head IP68
(electrical connection **1**)



6 POLES			
SPST (TCMM+T) WITH COMMON			SPST (TCMM+T) SEPARATE CONTACTS
YELLOW COMMON	LIGHT BLUE	B	LIGHT BLUE LIGHT BLUE
	WHITE	C	WHITE WHITE
	RED		RED RED
SPDT (TCMS+T) WITH COMMON			
YELLOW COMMON	ORANGE N.C. RED N.O.	B	
	WHITE N.C. LIGHT BLUE N.O.	C	
	GREEN		

Aluminum Head IP65
(electrical connection **2**)



10 POLES			
SPST (TCMM+T) WITH COMMON			SPST (TCMM+T) SEPARATE CONTACTS
1 COMMON	3	B	3 - 4
	2	C	1 - 2
	4 - 5		5 - 6
SPDT (TCMS+T) WITH COMMON			SPDT (TCMS+T) SEPARATE CONTACTS
1 COMMON	4 - N.C. 5 - N.O.	B	4 - COM 6 - N.C. 5 - N.O.
	2 - N.C. 3 - N.O.	C	1 - COM 2 - N.C. 3 - N.O.
	6 - 7		7 - 8

N.B.: the nature of the contact is considered in the presence of liquid