

Installation guide

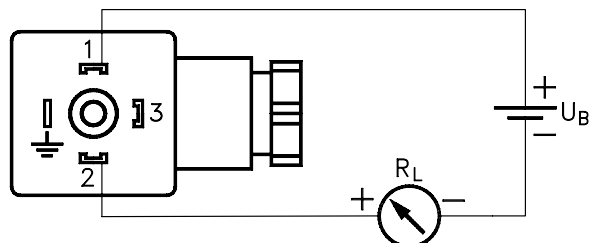
Pressure transmitter

Type MBS 1700 and MBS 1750

060R9358

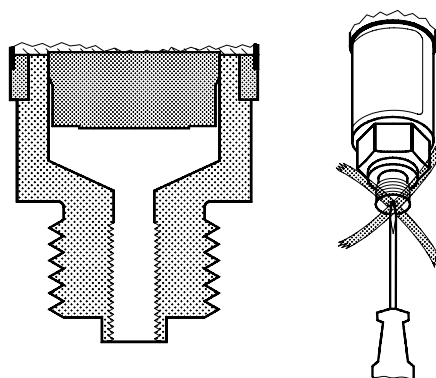
060R9358

Electrical connection:

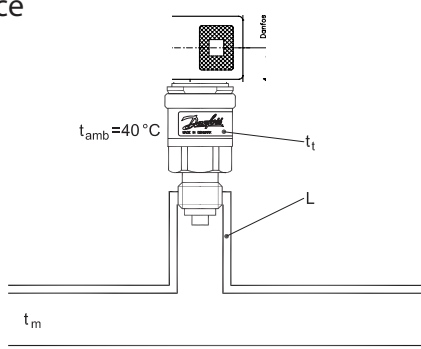


4 – 20 mA output (2 wire)

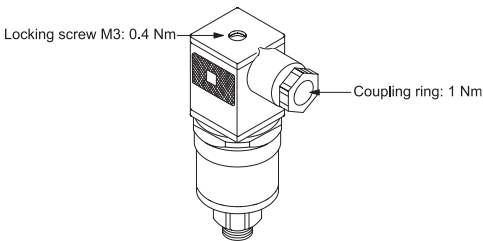
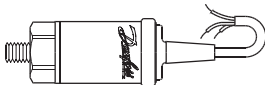
Pin1: + supply
Pin 2: ÷ supply
Pin 3: Not used
Earth: Connected to MBS enclosure



Guideline for temperature influence



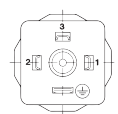
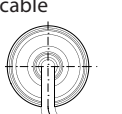
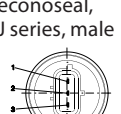
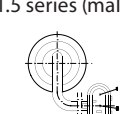
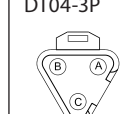
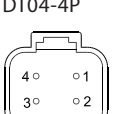
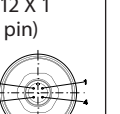
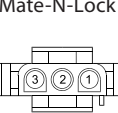
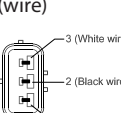
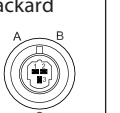
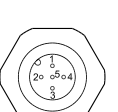
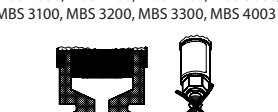
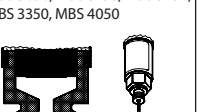
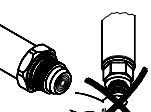
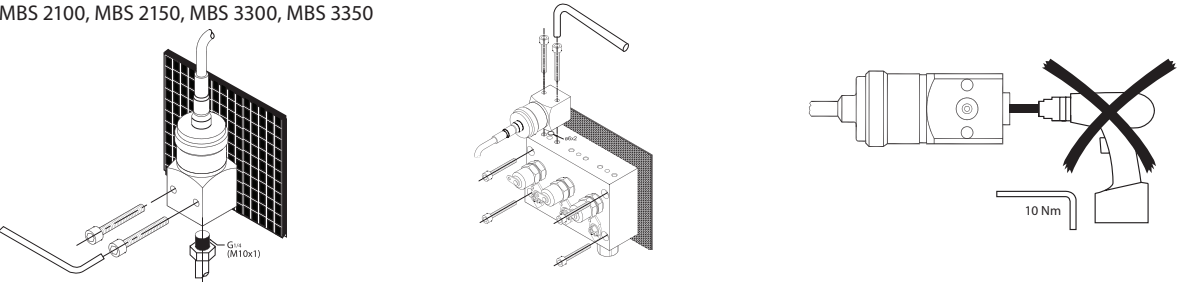
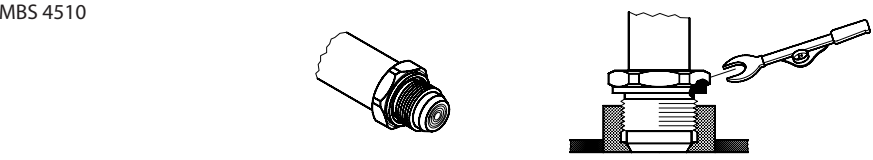
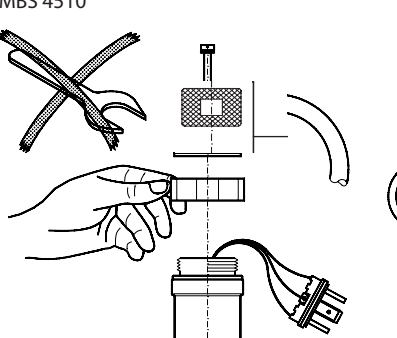
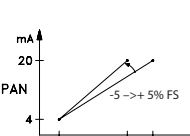
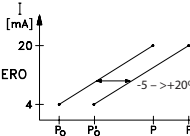
Medium temperature (t_m), [°C]	Heat isolator (L), [cm]	Transmitter temperature (t_t), [°C]
120	2	85
	5	75
	10	70
100	2	75
	5	65
	10	60

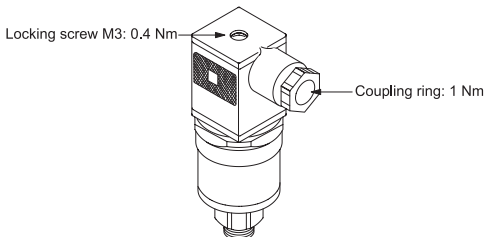
	 Locking screw M3: 0.4 Nm Coupling ring: 1 Nm Stikket må ikke fjernes, når sensoren er aktivert. Plug must not be removed when sensor is energized. Stecker darf nicht entfernt werden, wenn der sensor aktiviert ist. Le connecteur ne doit pas être retiré lorsque le capteur est encore sous tension. El conector no debe retirarse cuando el sensor esté activado. Il connettore elettrico non deve essere scollegato quando il sensore è in funzione.	 Kabelet må ikke udsættes for nogen mekaniske skader, korrison, vibration, varme eller UV stråling. Cable must neither be exposed for any mechanical damage, corrosion, vibration, heat nor UV radiation. Kabel müssen weder auf mechanische Beschädigungen, Korrosion, Vibration, Hitze noch UV-Strahlung ausgesetzt werden. Le câble ne doit être exposé à aucun dommage mécaniques, à la corrosion, àux vibrations, à la chaleur où aux radiations UV. El cable no deber estar expuesto a ningún tipo de radiación, daños mecánicos, corrosión, vibraciones, calor ó UV. Il cavo non deve essere esposto a danni meccanici, corrosione, vibrazioni, fonti di calore o raggi UV.
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Installation Guide

Pressure Transmitters

MBS 32, MBS 32R, MBS 33, MBS 33M, MBS 2000, MBS 2050, MBS 2100, MBS 2150, MBS 2200, MBS 2250, MBS 3000, MBS 3050, MBS 3100, MBS 3150, MBS 3200, MBS 3250, MBS 3300, MBS 3350, MBS 4003, MBS 4010, MBS 4050, MBS 4510

060R9328	 	Elektrisk tilslutning: Electrical connection: Elektrischer Anschluss: Raccordement électrique: Conexión eléctrica: Connessione elettrica: Se produktskilt See product label Siehe Produktschild Voir étiquette du produit Ver la pegatina en el producto Vedi etichetta sulla confezione								060R9328									
	EN 175301-803 	2m screened cable 	AMP econoseal, J series, male 	AMP superseal 1.5 series (male) 	Deutsch DT04-3P 	Deutsch DT04-4P 	EN60497-5-2 M12 X 1 (4 pin) 	Amphenol 6 pin 											
	Universal Mate-N-Lock 	Deutsch DT06-2S 	AMP 173065 (wire)  3 (White wire) 2 (Black wire) 1 (Red wire)	ITT Cannon sure seal ss 2-P 	Lumberg RSF 20/11 	KET-2P MG651092 	Round Packard 	ISO 15170-A1-3.2-Sn 											
	IEC 947-5-2-M12 x 1 (5 pin)  Pin5: Forbundet til kapsling Connected to enclosure Pin 5: Anschluss an Gehäuse Pin 5: Broche 5: Connecté au boîtier Pin 5: Conectado a la cubierta Polo 5: Collegato al corpo			MBS 32, MBS 32R, MBS 33, MBS 33M, MBS 2000, MBS 2100, MBS 2200, MBS 3000, MBS 3100, MBS 3200, MBS 3300, MBS 4003 		MBS 2050, MBS 2150, MBS 2250, MBS 3050, MBS 3150, MBS 3250, MBS 3350, MBS 4050 		MBS 4010, MBS 4510 											
	MBS 2100, MBS 2150, MBS 3300, MBS 3350  10 Nm																		
	MBS 4510 																		
MBS 4510  Max. 5mm   <table border="1" data-bbox="1115 1767 1498 1912"><thead><tr><th colspan="2">Zero adjustment</th></tr></thead><tbody><tr><td>0-1→0-10 bar</td><td>-5→+20% FS</td></tr><tr><td>0-16→0-40 bar</td><td>-5→+10% FS</td></tr><tr><td>0-60→0-600 bar</td><td>-5→+2.5% FS</td></tr></tbody></table> <table border="1" data-bbox="1155 1980 1457 2047"><thead><tr><th>Span adjustment</th></tr></thead><tbody><tr><td>-5→+5% FS</td></tr></tbody></table>										Zero adjustment		0-1→0-10 bar	-5→+20% FS	0-16→0-40 bar	-5→+10% FS	0-60→0-600 bar	-5→+2.5% FS	Span adjustment	-5→+5% FS
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	  	Australian approvals: According to N1297.		
		American and Canadian approvals: 1. Temperature indicating and regulating equipment acc. to UL 873, file no E31024 and Process control equipment acc. to CSA std. C22.2 no. 142-M1987. 2. Class I, Div. 2, Group A, B, C and D acc. to UL 1604, file no E227388 and Non-incendive electrical equipment for use in class I, Division 2, Group A, B, C and D acc. to CSA std. no. C22.2 no. 213-M1987. Must be powered by Class 2 power supply when used in Haz. Loc. Class I, Div. 2, Group A, B, C and D. MWP 600 bar / 8700 psi.		
		Type	MBS 32/33, MBS 32R, MBS 33M MBS 2000/2050, MBS 3000/3050, MBS 3100/3150, MBS 4003, MBS 4010, MBS 4050, MBS 4510	MBS 2100/2150, MBS 2200/2250 MBS 3200/3250, MBS 3300/3350
		Max. ambient temperature	85 °C / 185 °F	125 °C / 257 °F
		Temperature code	T4	T3B
	ATEX ZONE 2			EN60079-0; EN60079-15
		Alle elektriske tilslutninger skal udføres iht. ATEX Zone 2 regulativet - samt EN 60079-14. All electrical connections must comply with the ATEX requirements for Zone 2 - and EN 60079-14. Alle elektrischen Anschlüsse müssen gemäß ATEX Zone2 Regeln und EN 60079-14 durchgeführt werden. Tous les raccordements électriques doivent être effectués conformément aux règles ATEX zone 2 et EN 60079-14. Todas las conexiones eléctricas deben ser realizadas de acuerdo a los requerimientos de la normativa ATEX zona 2 y EN 60079-14. Tutti i collegamenti elettrici devono essere eseguiti secondo le normative ATEX Zone e EN 60079-14.		
				
		Stikket må ikke fjernes, når sensoren er aktiveret. Plug must not be removed when sensor is energized. Stecker darf nicht entfernt werden, wenn der sensor aktiviert ist. Le connecteur ne doit pas être retiré lorsque le capteur est encore sous tension. El conector no debe retirarse cuando el sensor esté activado. Il connettore elettrico non deve essere scollegato quando il sensore è in funzione.		Kabelet må ikke udsættes for nogen mekaniske skader, korrosion, vibration, varme eller UV stråling. Cable must neither be exposed for any mechanical damage, corrosion, vibration, heat nor UV radiation. Kabel müssen weder auf mechanische Beschädigungen, Korrosion, Vibration, Hitze noch UV-Strahlung ausgesetzt werden. Le câble ne doit être exposé à aucun dommage mécaniques, à la corrosion, àux vibrations, à la chaleur où aux radiations UV. El cable no deber estar expuesto a ningún tipo de radiación, daños mecánicos, corrosión, vibraciones, calor ó UV. Il cavo non deve essere esposto a danni meccanici, corrosione, vibrazioni, fonti di calore o raggi UV.
Ved anvendelser i ATEX Zone 2 områder ved temperaturer <-10 °C skal kabel og stik beskyttes mod slag. When used in ATEX Zone2 areas at temperatures <-10 °C the cable and plug must be protected against impact. Wenn in ATEX Zone 2 bei Temperaturen <-10 °C verwendet werden, müssen die Kabel und Stecker gegen Stöße geschützt werden. Lorqu'ils sont utilisés en zone 2 ATEX à des températures <-10 °C, le câble et le connecteur doivent être protégés contre les chocs. Cuando se usa en áreas ATEX zona 2, a temperaturas <-10 °C, el cable y conector deben protegerse contra impactos. Per l'uso in ATEX zona2 a temperature <-10 °C, il cavo ed il connettore devono essere protetti contro gli urti.				