



Danfoss AKS 32 Pressure Transmitters Installation Guide

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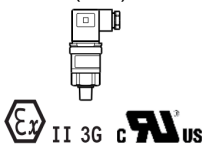
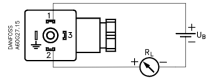
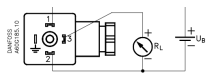
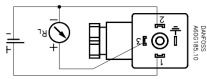
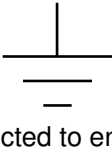
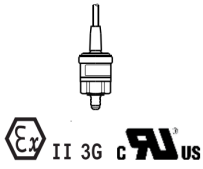
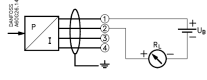
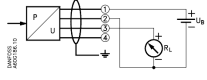
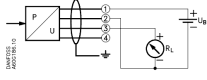
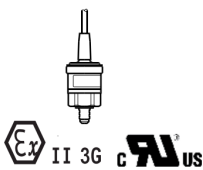
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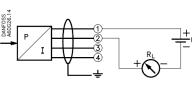
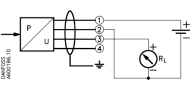
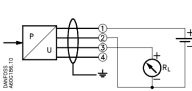


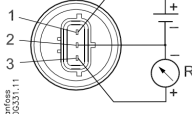


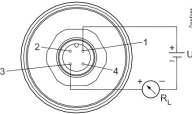
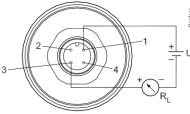

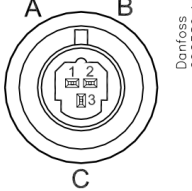
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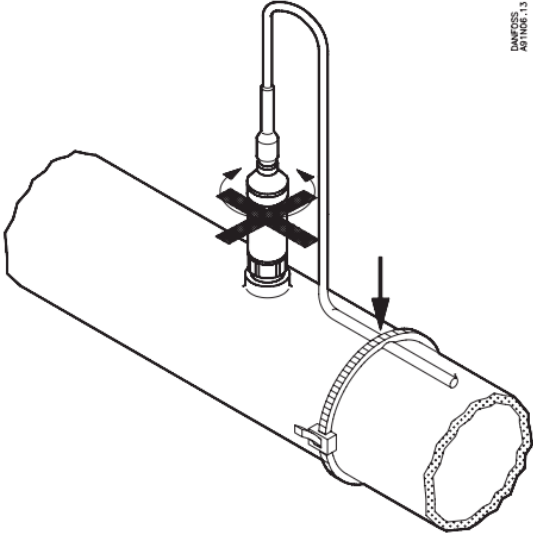
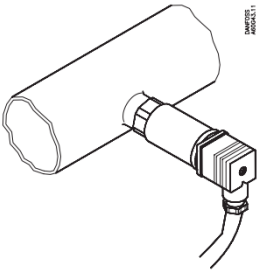
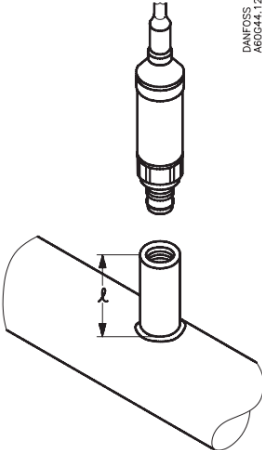

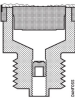
Electrical connection

		4 – 20 mA AKS 33, AKS 3000, AKS 3050, (DST P310)	1-5 V, 1-6 V, 0-10 V AKS 32, AKS 3000, AKS 3050, (DST P310)	10 – 90% AKS 32R, AKS 2050, (DST P310)	
175201-802 SI-Units (bar)					 Connected to enclosure
Ambient temperature		-40 – 85 °C	-40 – 85 °C	-40 – 85 °C	
Screened cable SI-Units (bar)		-40 – 100 °C)	(-40 – 114 °C)	(-40 – 114 °C)	
Ambient temperature		 1. Brown 2. Black 3. Red 4. Orange	 1. Red 2. Black 3. Brown 4. Orange	 1. Red 2. Black 3. Brown 4. Orange	Screen: Not connected to enclosure
Screened cable		-30 – 85 °C	-30 – 85 °C	-30 – 85 °C	Screen: Not connected to enclosure



<p>Ambient temperature</p>	 <p>1. Red 2. Black 3. White 4. Green</p>	 <p>1. Red 2. Black 3. White 4. Green</p>	 <p>1. Red 2. Black 3. White 4. Green</p>	
<p>AMP Econoseal</p>  	<p>-30 – 85 °C</p>	<p>-30 – 85 °C</p>	<p>-30 – 85 °C</p>	
<p>Ambient temperature</p>				
<p>Metri Pack</p>  			<p>-30 – 85 °C</p>	
<p>Ambient temperature</p>			<p>(-30 – 105 °C)</p>	<p>Power supply < 15 W 060G6559</p>
<p>EN6097-5-2, M1 2 x 1</p> 	<p>-40 – 85 °C</p>	<p>-40 – 85 °C</p>	 <p>-40 – 85 °C</p>	
<p>Ambient temperature</p>	<p>(-25 – 90 °C)</p>	<p>(-25 – 90 °C)</p>	<p>(-40 – 125 °C)</p>	

Mounting

	<p>Cable version</p>  <p>The pressure transmitter must be mounted before cable is fastened.</p>	<p>Orientation</p>  <p>Can be mounted horizontal or vertical with pressure connection facing downwards. Plug cable facing downwards prevents water collection in cable entry.</p>	<p>Hot gas pipe</p>  <p>Use a distance sleeve to reduce temperature influence.</p>
		<p>DST P310 might be equipped with a damping orifice – see code number or spec key</p>	

Approvals



According to EMC Directive 2014/30/EU



Australian approvals:

According to N1297



American and Canadian approvals: Must be powered by Class 2 power supply.


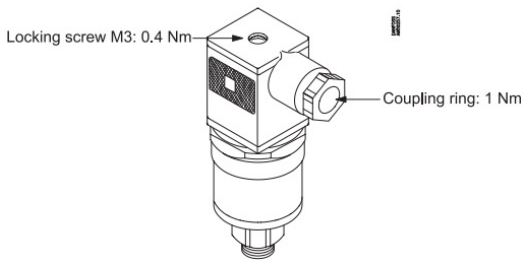

1. Automatic electrical controls acc. to UL 60730-1 and part 2-6 / CAN/CSA E60730 and part 2-6, le E31024.
2. Equipment for process measurement and control acc. to UL 61010-1 / CSA C22.2 No. 61010-1-12, le E494625.
3. Nonincendive electrical equipment for use in Class I, Div. 2, Groups A, B, C, and D, hazardous locations in acc. To ANSI/ISO 12.12.1 / C22.2 No. CSA-213, le E227388. Combinations of equipment in systems are subject to investigation by the local Authority Having Jurisdiction at the time of installation. These components are to be installed within a suitable tool-secured enclosure in end application.

WARNING – EXPLOSION HAZARD – Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.

4. The MWP (max. working pressure) in the range from 1 to 500 bar depending on sensor range. Refer to product label (E31024).
5. Evaluated for pollution Degree 3

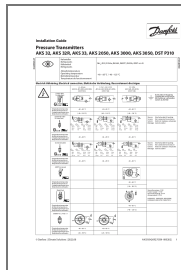
6. Altitude up to 8,000 m.
7. Max. R.H. 95% non-condensing.
8. Overvoltage category I.
9. Powered by class 2 supply

Type	AKS	DST	
Max ambient temperature /T-code	85 °C / T4	125 °C / T4	
Electrical connectors	For UL approved see overview page 1		
output signal	Current	Absolute voltage	Ratio-metric
Supply voltage	9 – 32 V DC	9 – 32 V DC	4,5 – 5,5 V DC (5V nom)

ATEX	 <p>II 3G Ex ec IIA T4 Gc -20°C <Ta<+85°C</p>	EN60079-0, EN60079-7
	When used in ATEX Zone 2 areas at temperatures <-10 °C the cable and plug must be protected against impact.	
	Can only be used with flammable refrigerants in hazard Zone 2 or in non-classified hazardous zones.	All electrical connections must comply with ATEX requirements for Zone 2 – and EN 60079-14.
	 <p>Locking screw M3: 0.4 Nm</p> <p>Coupling ring: 1 Nm</p> <p>Plug must not be removed when sensor is energized.</p>	 <p>Cable must neither be exposed for any mechanical damage, corrosion, vibration, heat nor UV radiation.</p>
Applications applying flammable refrigerants	<p>AKS other products not evaluated for use in ATEX Zone 2, these can be used in end user applications employing the following flammable refrigerants: A3: R290, R600, R600a, R1270,</p> <p>A2L: R32, R454A/B/C, R444B, R455A, R452A/B, R1234zeyf</p>	IEC/EN 60335-2-89 (commercial refrigerating appliances) IEC/EN 60335-2-40 (electrical heat pumps, air-conditioners)



Documents / Resources



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AKS 32, AKS 32R, AKS 33, AKS 2050, AKS 3000, AKS 3050, DST P310, AKS 32 Pressure Transmitters, AKS 32, Pressure Transmitters, Transmitters

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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