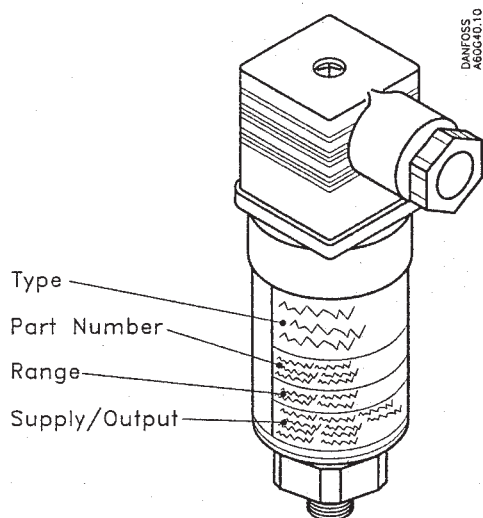




INSTRUCTIONS

AKS 31 R, AKS 32 and AKS 33

Identification

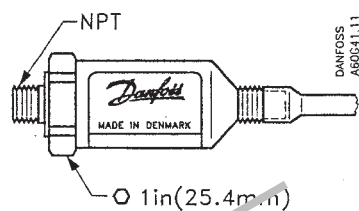


Main data

Max media / ambient temperature: 175°F (80°C)
Min. media / ambient temperature: -40°F (-40°C)
Approved for: R22, R134a, R502, R12 and R717 (NH₃)

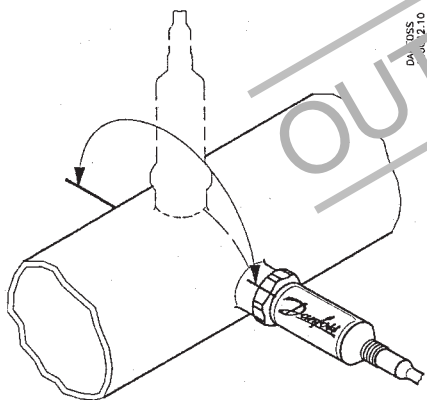
The sensor is non-adjustable!

Pressure connection



Mounting

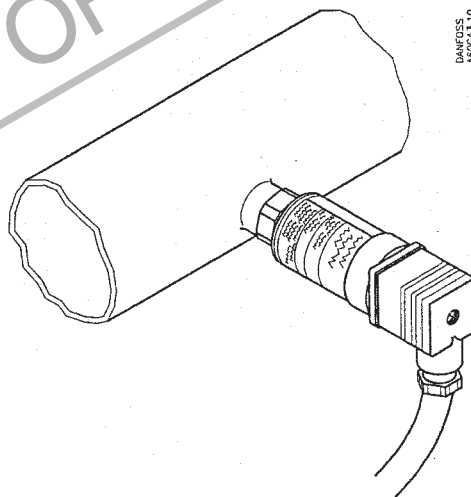
Cable version



Can be mounted in any position from horizontal to vertical with pressure connection facing downwards.

Do not mount with electrical connection facing downwards.

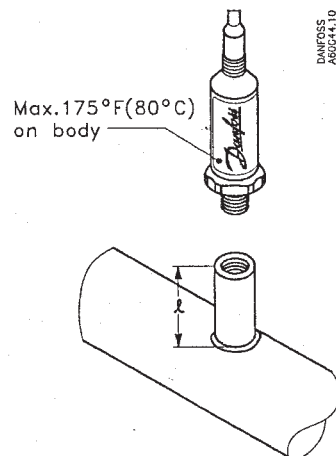
Plug version



The sensor should preferably be mounted horizontal to avoid water collection in plug screw.

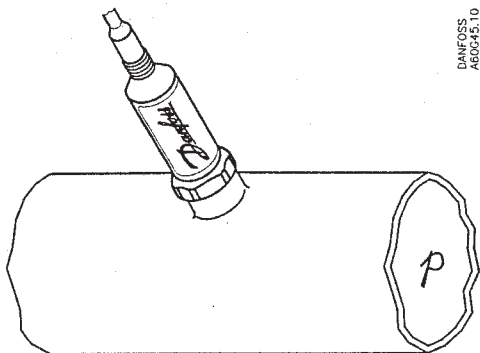
Plug cable facing downwards prevent water collection in cable entry.

Hot gas pipe



When used on a hot gas pipe use a distance sleeve to reduce temperature influence. At hot gas temperature higher than 210°F (100°C) a 2 in (5 cm) sleeve is to be used.

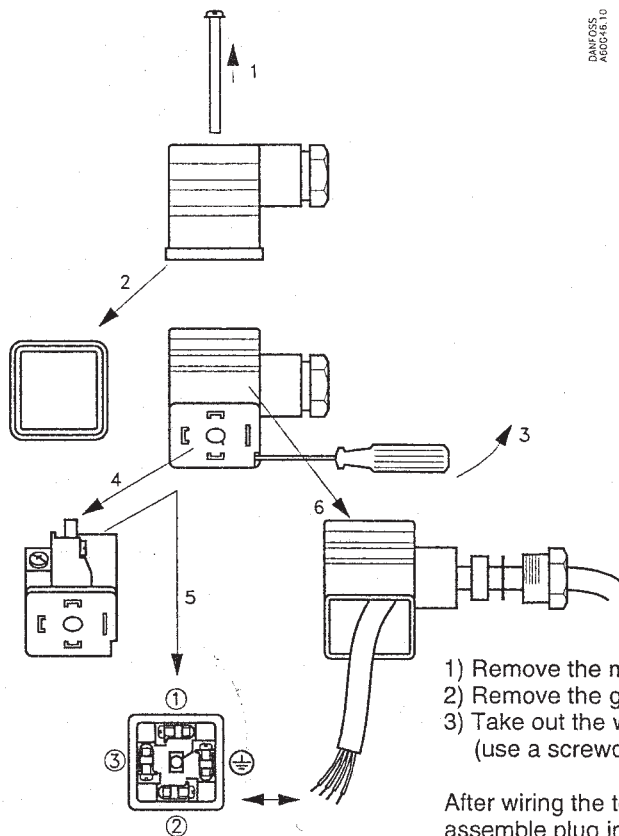
Max. Pressure



DANFOSS
AKS50.10

Range	SWP / MWP	Test pressure
0 - 100 psig	400 psig	800 psig
0 - 200 psig	400 psig	800 psig
0 - 500 psig	800 psig	800 psig

Disassemble plug



DANFOSS
AKS50.10

- 1) Remove the mounting screw.
- 2) Remove the gasket.
- 3) Take out the wiring center (use a screwdriver).

After wiring the terminals, assemble plug in opposite order.

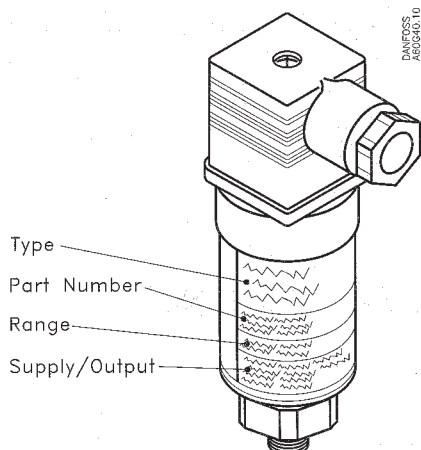
Electrical connection

Type	Symbol	Connection	Power supply	Output signal
AKS 31 R		 Screen: Isolated from housing Red: + supply Black: - supply White: - output signal Green: + output signal	Max. 11 V d.c.	10 mV / V supply, radiometric
AKS 32		 Screen: Isolated from housing Red: + supply Black: - supply / common White: + output signal	Max. 30 V d.c.	1 - 5 V d.c. R > 10 kΩ
		 1: + supply 2: - supply / common 3: + output signal ⊕: Ground	Max. 30 V d.c.	1 - 5 V d.c. R > 10 kΩ
AKS 33		 Screen: Isolated from housing Red: + supply Black: - supply	Max. 30 V d.c.	4 - 20 mA
		 1: + supply 2: - supply ⊕: Ground	Max. 30 V d.c.	4 - 20 mA



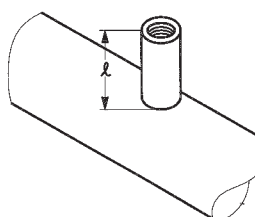
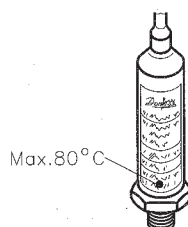
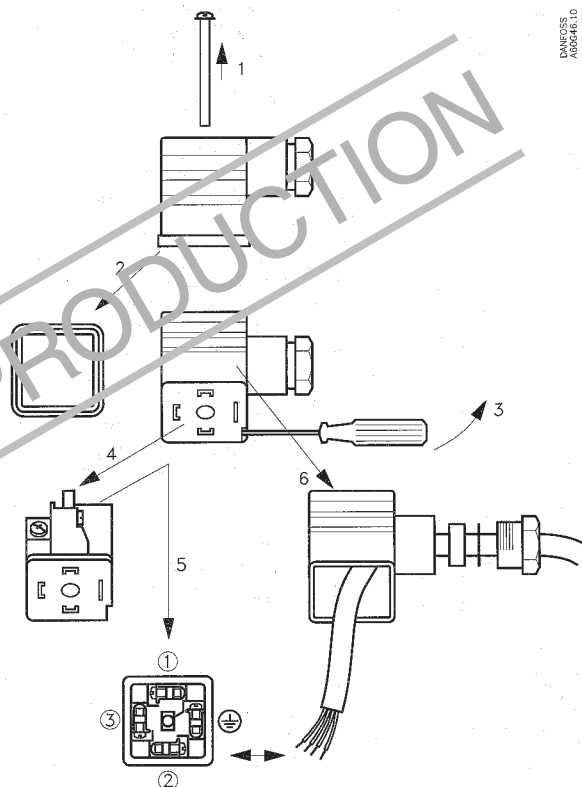
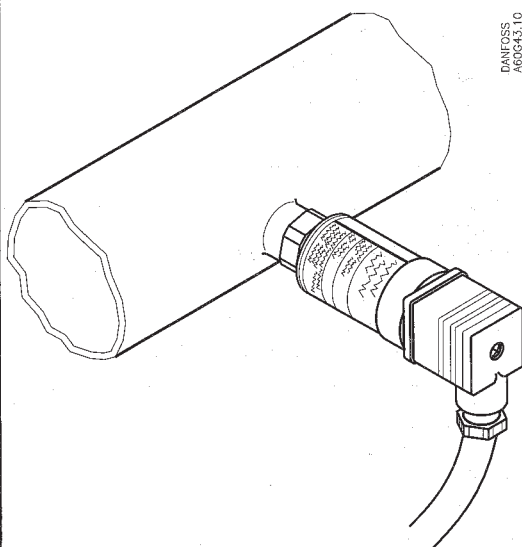
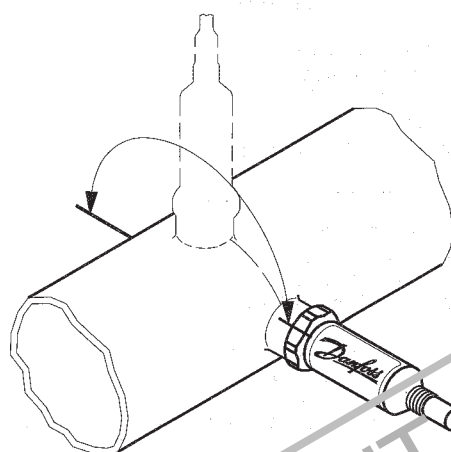
INSTRUCTIONS

AKS 31R, AKS 32, AKS 33



R12, R22, R134a, R502, R717 (NH₃)
-40 → 80 °C (-40 → 175 °F)

Område Range Bereich Plage bar	Tilladeligt driftstryk Max. working pressure Zul. Betriebsüberdruck Pression de service PB/MWP bar	Max prøvetryk Max. test pressure Max. Prüfdruck Pression d'essai max p' bar
≤ 12	22	30
> 12	40	55

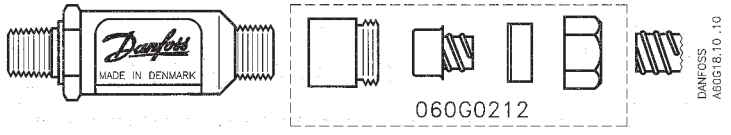
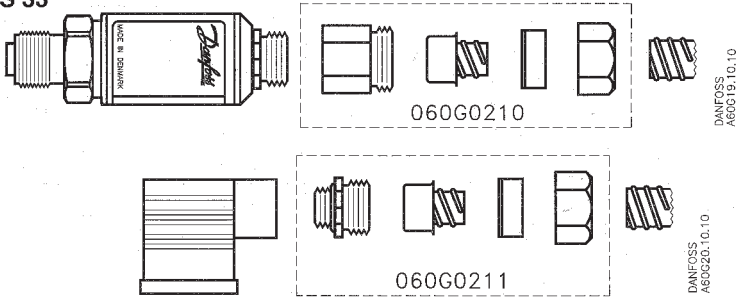
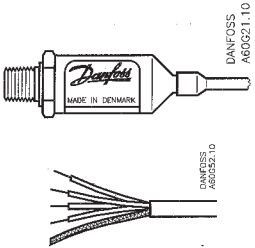
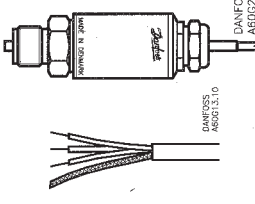

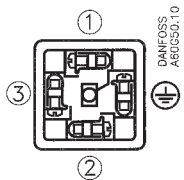
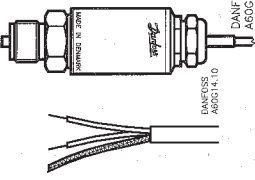
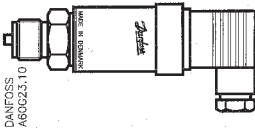
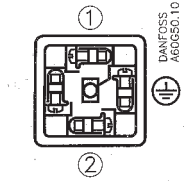


Ved anvendelse på varmgasrør vil en afstandsstuds kunne nedsætte temperaturpåvirkningen.
Ved varmgastemperaturer over 100 °C anvendes en 5 cm lang studs.

When used on a hot gas pipe use a distance sleeve to reduce temperature influence.
At hotgas temperatures higher than 100 °C a 5 cm tube connector is to be used.

Durch die Verwendung einer Distanzbuchse an der Durchleitung kann die Temperatureinwirkung reduziert werden.
Bei Heißgastemperaturen über 100 °C wird ein 5 cm langer Stutzen empfohlen.

En cas de montage sur la conduite de gaz chauds, une turbulure d'cortement permet d'amortir l'influence thermique.
Pour les températures dépassant 100 °C, utiliser une tubulure de 5 cm.

<p>Tilbehør: Adapter til panserslange</p> <p>Accessories: Adapter for armoured hose</p> <p>Zubehör: Adapter für Panzerschlauch</p> <p>Accessoires: Adaptateur pour tuyau armé</p>	<p>AKS 31R</p>  <p>060G0212</p> <p>DANFOSS A60C18.10.10</p> <p>AKS 32, AKS 33</p>  <p>060G0210</p> <p>DANFOSS A60C19.10.10</p> <p>060G0211</p> <p>DANFOSS A60C20.10.10</p>				
<p>AKS 31R</p>  <p>DANFOSS A60C21.10</p>	<table border="0"> <tr> <td> <p>Orange: + Forsyning Brun: – Forsyning Rød: + Udgangssignal Sort: – Udgangssignal Skærm: Isoleret fra kapsling</p> <p>Orange: + Supply Brown: – Supply Red: + Output signal Black: – Output signal Screen: Isolated from housing</p> </td><td> <p>Orange: + Versorgung Braun: – Versorgung Rot: + Ausgangssignal Schwartz: – Ausgangssignal Schirm: Vom Gehäuse isoliert</p> <p>Orange: + Alimentation Brun: – Alimentation Rouge: + Signal de sortie Noir: – Signal de sortie Blindage de câble: Isolé de l'enveloppe</p> </td></tr> </table>	<p>Orange: + Forsyning Brun: – Forsyning Rød: + Udgangssignal Sort: – Udgangssignal Skærm: Isoleret fra kapsling</p> <p>Orange: + Supply Brown: – Supply Red: + Output signal Black: – Output signal Screen: Isolated from housing</p>	<p>Orange: + Versorgung Braun: – Versorgung Rot: + Ausgangssignal Schwartz: – Ausgangssignal Schirm: Vom Gehäuse isoliert</p> <p>Orange: + Alimentation Brun: – Alimentation Rouge: + Signal de sortie Noir: – Signal de sortie Blindage de câble: Isolé de l'enveloppe</p>		
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<p>AKS 32</p>  <p>DANFOSS A60C22.10</p>  <p>DANFOSS A60C23.10</p>  <p>DANFOSS A60C22.10</p>	<table border="0"> <tr> <td> <p>Rød: + Forsyning Sort: – Forsyning (fælles) Brun: + Udgangssignal (S) Skærm: Isoleret fra kapsling</p> <p>Red: + Supply Black: – Supply (common) Brown: + Output signal (S) Screen: Isolated from housing</p> </td><td> <p>Rot: + Versorgung Schwartz: – Versorgung (gemeinsam) Braun: + Ausgangssignal Schirm: Vom Gehäuse isoliert</p> <p>Rouge: + Alimentation Noir: – Alimentation (neutre) Brun: + Signal de sortie Blindage de câble: Isolé de l'enveloppe</p> </td></tr> <tr> <td> <p>1: + Forsyning 2: – Forsyning (fælles) 3: + Udgangssignal (S) ⊕: Stel</p> <p>1: + Supply 2: – Supply (common) 3: + Output signal (S) ⊕: Frame</p> </td><td> <p>1: + Versorgung 2: – Versorgung (gemeinsam) 3: + Ausgangssignal ⊕: Masse</p> <p>1: + Alimentation 2: – Alimentation (neutre) 3: + Signal de sortie ⊕: Masse</p> </td></tr> </table>	<p>Rød: + Forsyning Sort: – Forsyning (fælles) Brun: + Udgangssignal (S) Skærm: Isoleret fra kapsling</p> <p>Red: + Supply Black: – Supply (common) Brown: + Output signal (S) Screen: Isolated from housing</p>	<p>Rot: + Versorgung Schwartz: – Versorgung (gemeinsam) Braun: + Ausgangssignal Schirm: Vom Gehäuse isoliert</p> <p>Rouge: + Alimentation Noir: – Alimentation (neutre) Brun: + Signal de sortie Blindage de câble: Isolé de l'enveloppe</p>	<p>1: + Forsyning 2: – Forsyning (fælles) 3: + Udgangssignal (S) ⊕: Stel</p> <p>1: + Supply 2: – Supply (common) 3: + Output signal (S) ⊕: Frame</p>	<p>1: + Versorgung 2: – Versorgung (gemeinsam) 3: + Ausgangssignal ⊕: Masse</p> <p>1: + Alimentation 2: – Alimentation (neutre) 3: + Signal de sortie ⊕: Masse</p>
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