

Fluid Sensors

System overview



weFlux² Temperature Sensors



Compression Ring
FXTTxxx / FXDDxxx

Probe Length

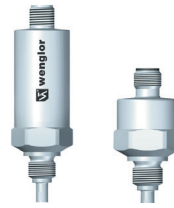
50 mm
75 mm
100 mm
200 mm



Sealing Cone M18x1,5
FXTTxxx / FXDDxxx

Probe Length

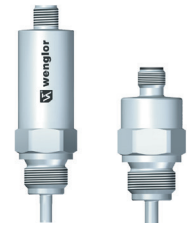
32 mm
36 mm*
50 mm
100 mm
200 mm



G1/4"
FXTTxxx / FXDDxxx

Probe Length

9,5 mm
32 mm*
36 mm*
50 mm*
100 mm*
200 mm*



G1/2"
FXTTxxx / FXDDxxx

Probe Length

13,5 mm
32 mm*
36 mm*
50 mm*
100 mm*
200 mm*

Output Function

IO-Link
1 × Switching Output,
1 × Analog Output
2 × Switching Output
PT 100
PT 1000

Output Function

IO-Link
1 × Switching Output,
1 × Analog Output
2 × Switching Output
PT 100
PT 1000

Output Function

IO-Link
1 × Switching Output,
1 × Analog Output
2 × Switching Output
PT 100
PT 1000

Output Function

IO-Link
1 × Switching Output,
1 × Analog Output
2 × Switching Output
PT 100
PT 1000

Cutting-ring connector
ZH6Cxxx



for G1/4"
for G1/2"

Screw-in adapter for G1/4"
ZH1Cxxx



16 mm
18 mm

T-Fittings
ZH3Cxxx



3 × G1/4"
3 × G1/4", Adapter for
minimal flow Alu

T-Fittings
ZH3Cxxx



2 × G3/4", 1 × G1/2"
3 × G1/2",

Clamping-ring connector
ZH6Cxxx



for G1/4"
for G1/2"

Screw-in adapter for G1/2"
ZH1Cxxx



6 mm
14 mm
42 mm



3 × G1/4"

Screw-in adapter
ZH4Cxxx



with undercut
without undercut

Screw-in adapter for G1"
ZH1Cxxx



6 mm

Sealing
ZH5Gxxx



for G1/4"
for G1/2"

Screw-in adapter for NPT
ZH1Cxxx



G1/4", 18 mm
G1/2", 6 mm

Sealing
ZH5Gxxx



for G1/4"

Sealing
ZH5Gxxx



for G1/2"

Screw-in adapter
ZH4Cxxx



12 mm
40 mm

Sealing
ZH5Gxxx



for G1/4"
for G1/2"
for G1"

IO-Link Master
EFBLxxx / ZAI72Axxx



USB
Profibus

IO-Link Master
EFBLxxx / ZAI72Axxx



USB
Profibus

IO-Link Master
EFBLxxx / ZAI72Axxx

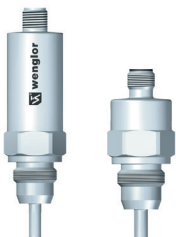


USB
Profibus

IO-Link Master
EFBLxxx / ZAI72Axxx



USB
Profibus


G1/2" CIP
FXTTxxx / FXDDxxx
Probe Length

9,5 mm
16,4 mm
32 mm*
36 mm*
50 mm*
100 mm*
200 mm*

Output Function

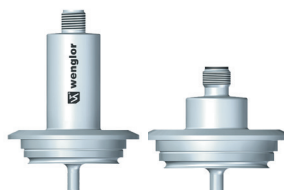
IO-Link
1 × Switching Output,
1 × Analog Output
2 × Switching Output
PT 100
PT 1000

T-Fittings
ZH3Cxxx


DN25
DN50

Screw-in adapter
ZH4Cxxx

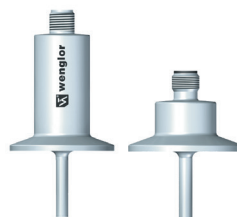

19 mm


Varivent®
FXTTxxx / FXDDxxx
Diameter **Probe Length**

F (DN32/25)	9,5 mm
N (DN50/40)	13,5 mm
	16,4 mm*
	32 mm
	36 mm*
	50 mm*
	100 mm*

Output Function

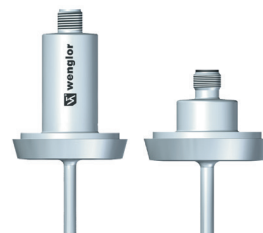
IO-Link
1 × Switching Output,
1 × Analog Output
2 × Switching Output
PT 100
PT 1000


Tri-Clamp
FXTTxxx / FXDDxxx
Diameter **Probe Length**

Ø34 mm	32 mm
Ø50,5 mm	36 mm*
Ø64 mm	50 mm*
	100 mm*
	200 mm*

Output Function

IO-Link
1 × Switching Output,
1 × Analog Output
2 × Switching Output
PT 100
PT 1000


Diary Pipe
FXTTxxx / FXDDxxxs
Diameter **Probe Length**

DN25	32 mm
DN40	36 mm
DN50	50 mm*
	100 mm*
	200 mm*

Output Function

IO-Link
1 × Switching Output,
1 × Analog Output
2 × Switching Output
PT 100
PT 1000

IO-Link Master
EFBLxxx / ZAI72Axxx


USB
Profibus

IO-Link Master
EFBLxxx / ZAI72Axxx


USB
Profibus

IO-Link Master
EFBLxxx / ZAI72Axxx


USB
Profibus

IO-Link Master
EFBLxxx / ZAI72Axxx


USB
Profibus

weFlux² Flow Sensors



Compression Ring FXFFxxx

Probe Length

50 mm
75 mm
100 mm
200 mm

Output Function

IO-Link

1 × Switching Output (Flow/Temp),
1 × Analog Output (Flow/Temp)

2 × Switching Output (Flow/Flow) /
(Flow/Temp) / (Temp/Temp)

2 × Analog Output (Flow/Temp)

Cutting-ring connector ZH6Cxxx



for G¹/₄"
for G¹/₂"

Clamping-ring connector ZH6Cxxx



for G¹/₄"
for G¹/₂"

Sealing ZH5Gxxx



for G¹/₄"
for G¹/₂"

IO-Link Master EFBLxxx / ZAI72Axxx



USB
Profibus



Sealing Cone M18×1,5 FXFFxxx

Probe Length

32 mm*
36 mm*
50 mm
100 mm
200 mm*

Output Function

IO-Link

1 × Switching Output (Flow/Temp),
1 × Analog Output (Flow/Temp)

2 × Switching Output (Flow/Flow) /
(Flow/Temp) / (Temp/Temp)

2 × Analog Output (Flow/Temp)

Screw-in adapter for G¹/₄" ZH1Cxxx



16 mm
18 mm

Screw-in adapter for G¹/₂" ZH1Cxxx



6 mm
14 mm
42 mm

Screw-in adapter for G¹" ZH1Cxxx



6 mm

Screw-in adapter for NPT ZH1Cxxx



G¹/₄", 18 mm
G¹/₂", 6 mm

Screw-in adapter ZH4Cxxx



12 mm
40 mm

Sealing ZH5Gxxx



for G¹/₄"
for G¹/₂"
for G¹"

IO-Link Master EFBLxxx / ZAI72Axxx



USB
Profibus



G¹/₄" FXFFxxx

Probe Length

9,5 mm
32 mm*
36 mm*
50 mm*
100 mm*
200 mm*

Output Function

IO-Link

1 × Switching Output (Flow/Temp),
1 × Analog Output (Flow/Temp)

2 × Switching Output (Flow/Flow) /
(Flow/Temp) / (Temp/Temp)

2 × Analog Output (Flow/Temp)

T-Fittings ZH3Cxxx



3 × G¹/₄"
3 × G¹/₄", Adapter for
minimal flow Alu



3 × G¹/₄"

Sealing ZH5Gxxx



for G¹/₄"

IO-Link Master EFBLxxx / ZAI72Axxx



USB
Profibus



G¹/₂" FXFFxxx

Probe Length

13,5 mm
32 mm*
36 mm*
50 mm
100 mm*
200 mm*

Output Function

IO-Link

1 × Switching Output (Flow/Temp),
1 × Analog Output (Flow/Temp)

2 × Switching Output (Flow/Flow) /
(Flow/Temp) / (Temp/Temp)

2 × Analog Output (Flow/Temp)

T-Fittings ZH3Cxxx



2 × G³/₄", 1 × G¹/₂"
3 × G¹/₂"

Screw-in adapter ZH4Cxxx



with undercut
without undercut

Sealing ZH5Gxxx



for G¹/₄"
for G¹/₂"

IO-Link Master EFBLxxx / ZAI72Axxx



USB
Profibus


**G1/2" CIP
FXFFxxx**
Probe Length

16,4 mm
32 mm*
36 mm*
50 mm
100 mm*
200 mm*

Output Function

IO-Link

1 × Switching Output (Flow/Temp),
1 × Analog Output (Flow/Temp)

2 × Switching Output (Flow/Flow) /
(Flow/Temp) / (Temp/Temp)

2 × Analog Output (Flow/Temp)

**T-Fittings
ZH3Cxxx**


DN25
DN50

**Screw-in adapter
ZH4Cxxx**


19 mm


**Varivent®
FXFFxxx**
Diameter

F (DN32/25)
N (DN50/40)

Probe Length

32 mm
36 mm*
50 mm*
100 mm*
200 mm*

Output Function

IO-Link

1 × Switching Output (Flow/Temp),
1 × Analog Output (Flow/Temp)

2 × Switching Output (Flow/Flow) /
(Flow/Temp) / (Temp/Temp)

2 × Analog Output (Flow/Temp)


**Tri-Clamp
FXFFxxx**
Diameter

Ø34 mm
Ø50,5 mm
Ø64 mm

Probe Length

32 mm
36 mm*
50 mm
100 mm*
200 mm*

Output Function

IO-Link

1 × Switching Output (Flow/Temp),
1 × Analog Output (Flow/Temp)

2 × Switching Output (Flow/Flow) /
(Flow/Temp) / (Temp/Temp)

2 × Analog Output (Flow/Temp)


**Diary Pipe
FXFFxxx**
Diameter

DN25
DN40
DN50

Probe Length

32 mm
36 mm
50 mm
100 mm*
200 mm*

Output Function

IO-Link

1 × Switching Output (Flow/Temp),
1 × Analog Output (Flow/Temp)

2 × Switching Output (Flow/Flow) /
(Flow/Temp) / (Temp/Temp)

2 × Analog Output (Flow/Temp)

**IO-Link Master
EFBLxxx / ZAI72Axxx**


USB
Profibus

**IO-Link Master
EFBLxxx / ZAI72Axxx**


USB
Profibus

**IO-Link Master
EFBLxxx / ZAI72Axxx**


USB
Profibus

**IO-Link Master
EFBLxxx / ZAI72Axxx**


USB
Profibus

UniTemp Temperature Sensors



Sealing Cone M18x1,5 FFATxxx

Probe Length
44 mm
103,5 mm

Output Function
1 × Analog Output, 1 × Switching Output
1 × Analog Output, 1 × Relay Output
2 × Switching Output

Screw-in adapter for G1/4" ZH1Cxxx

	18 mm 16 mm
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Screw-in adapter for G1/2" ZH1Cxxx

	6 mm 42 mm 14 mm
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Screw-in adapter for G1" ZH1Cxxx

	6 mm
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Screw-in adapter for NPT ZH1Cxxx

	G1/4", 18 mm G1/2", 6 mm
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Screw-in adapter ZH4Cxxx

	12 mm 40 mm
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Sealing ZH5Gxxx

	for G1/4" for G1/2" for G1"
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G1/4" FFATxxx

Probe Length
10 mm

Output Function
1 × Analog Output, 1 × Switching Output
1 × Analog Output, 1 × Relay Output
2 × Switching Output

T-Fittings ZH3Cxxx

	3 × G1/4" 3 × G1/4" Adapter for minimal flow V4A 3 × G1/4" Adapter for minimal flow Alu
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Sealing ZH5Gxxx

	for G1/4"
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G1/2" FFATxxx

Probe Length
10 mm

Output Function
1 × Analog Output, 1 × Switching Output
1 × Analog Output, 1 × Relay Output
2 × Switching Output

T-Fittings ZH3Cxxx

	2 × G3/4" , 1 × G1/2" 3 × G1/2"
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Screw-in adapter ZH4Cxxx

	with undercut without undercut
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Sealing ZH5Gxxx

	for G1/2"
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**G1/2" CIP
FFATxxx/FFXTxxx**
Probe Length

10 mm
60 mm

Output Function

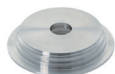
1 × Analog Output, 1 × Switching Output
1 × Analog Output, 1 × Relay Output
2 × Switching Output

**T-Fittings
ZH3Cxxx**


DN25
DN50

**Screw-in adapter
ZH4Cxxx**

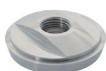

19 mm

**Varivent®
ZH7Cxxx**


F (DN32/25)
N (DN50/40)

**Tri-Clamp
ZH7Cxxx**


Ø34 mm
Ø50,5 mm
Ø64 mm

**Diary Pipe
ZH7Cxxx**


DN25
DN40
DN50


**Compression Ring
FFXTxxx**
Probe Length

110 mm

Output Function

1 × Analog Output, 1 × Switching Output
1 × Analog Output, 1 × Relay Output
2 × Switching Output

**Cutting-ring connector
ZH6Cxxx**


for G1/4"
for G1/2"

**Clamping-ring connector
ZH6Cxxx**


for G1/4"
for G1/2"

**Sealing
ZH5Gxxx**


for G1/4"
for G1/2"

UniFlow Flow Sensors



Sealing Cone M18×1,5 FFAFxxx

Probe Length
44 mm
103,5 mm

Output Function
2 × Switching Output (Flow/Flow)
2 × Switching Output (Flow/Temp)
1 × Analog Output (Flow / Temp),
1 × Switching Output
1 × Analog Output (Flow / Temp),
1 × Relay Output

Screw-in adapter for G1/4" ZH1Cxxx

	18 mm
	16 mm

Screw-in adapter for G1/2" ZH1Cxxx

	6 mm
	42 mm
	14 mm

Screw-in adapter for G1" ZH1Cxxx

	6 mm
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Screw-in adapter for NPT ZH1Cxxx

	G1/4", 18 mm
	G1/2", 6 mm

Screw-in adapter ZH4Cxxx

	12 mm
	40 mm

Sealing ZH5Gxxx

	for G1/4"
	for G1/2"
	for G1"



G1/4" FFAFxxx

Probe Length
10 mm

Output Function
2 × Switching Output (Flow/Flow)
2 × Switching Output (Flow/Temp)
1 × Analog Output (Flow / Temp),
1 × Switching Output
1 × Analog Output (Flow / Temp),
1 × Relay Output

T-Fittings ZH3Cxxx

	3 × G1/4"
	3 × G1/4" Adapter for minimal flow V4A
	3 × G1/4" Adapter for minimal flow Alu

Sealing ZH5Gxxx

	for G1/4"
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G1/2" FFAFxxx

Probe Length
10 mm

Output Function
2 × Switching Output (Flow/Flow)
2 × Switching Output (Flow/Temp)
1 × Analog Output (Flow / Temp),
1 × Switching Output
1 × Analog Output (Flow / Temp),
1 × Relay Output

T-Fittings ZH3Cxxx

	2 × G 3/4", 1 × G 1/2"
	3 × G 1/2"

Screw-in adapter ZH4Cxxx

	with undercut
	without undercut

Sealing ZH5Gxxx

	for G1/2"
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G 1/2" CIP
FFAFxxx / FFXFxxx
Probe Length

10 mm
60 mm

Output Function

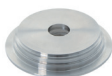
2 × Switching Output (Flow/Flow)
2 × Switching Output (Flow/Temp)
1 × Analog Output (Flow / Temp),
1 × Switching Output
1 × Analog Output (Flow / Temp),
1 × Relay Output

T-Fittings
ZH3Cxxx


DN25
DN50

Screw-in adapter
ZH4Cxxx

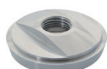

19 mm

Varivent®
ZH7Cxxx


F (DN32/25)
N (DN50/40)

Tri-Clamp
ZH7Cxxx


Ø34 mm
Ø50,5 mm
Ø64 mm

Diary Pipe
ZH7Cxxx


DN25
DN40
DN50


Sealing Cone M18 × 1,5
FFAFxxx
Probe Length

44 mm
G 1/2", G 3/4", G 1"

Output Function

2 × Switching Output (Flow/Flow)

1 × Analog Output (Flow / Temp),
1 × Switching Output

UniBar Pressure Sensors

						
G1/8" Internal Thread FFAPxxx			G1/4" Internal Thread FFAPxxx / FFMPxxx		G3/8" External Thread FFAPxxx / FFMPxxx	
Pressure Range -1...10 bar			Pressure Range 0...600 bar		Pressure Range 0...600 bar	
Output Function 1 × Analog Output, 1 × Switching Output 1 × Analog Output, 1 × Relay Output 2 × Switching Output			Output Function 1 × Analog Output, 1 × Switching Output 1 × Analog Output, 1 × Relay Output 2 × Switching Output		Output Function 1 × Analog Output, 1 × Switching Output 1 × Analog Output, 1 × Relay Output 2 × Switching Output	
			Sealing ZH5Gxxx			
			 für G1/4"			


G $\frac{1}{2}$ " Internal Thread
FFAPxxx / FFMPxxx
Pressure Range

-1...600 bar

Output Function

1 × Analog Output, 1 × Switching Output
1 × Analog Output, 1 × Relay Output
2 × Switching Output

Sealing
ZH5Gxxx

for G $\frac{1}{2}$ "

G $\frac{1}{2}$ " External Thread
FFAPxxx / FFMPxxx
Pressure Range

0...600 bar

Output Function

1 × Analog Output, 1 × Switching Output
1 × Analog Output, 1 × Relay Output
2 × Switching Output

Screw-in adapter
ZH4Cxxx

with undercut
without undercut

G $\frac{1}{2}$ " CIP
FFAPxxx / FFMPxxx
Pressure Range

0...600 bar

Output Function

1 × Analog Output, 1 × Switching Output
1 × Analog Output, 1 × Relay Output
2 × Switching Output

Varivent®
ZH7Cxxx

F (DN32/25)
N (DN50/40)

Tri-Clamp
ZH7Cxxx

Ø34 mm
Ø50,5 mm
Ø64 mm

Diary Pipe
ZH7Cxxx

DN25
DN40
DN50

T-Fittings
ZH3Cxxx

DN25
DN50

Screw-in adapter
ZH4Cxxx
