DATASENSING
easing automation challenges

NEW! AISI316L IP69K IP68

UFT

ULTRASONIC FULL METAL TUBULAR M30 SENSOR



- Stainless Steel AISI 316L housing
- IP68, IP69K mechanical protection degree
- ECOLAB certification
- IO-Link models

CE UKCA ECOLAB IO-Link

CODE DESCRIPTION

			UFT	1	B	/	H	6	-	1	E	IO
series	UFT	M30 ultrasonic sensor full metal										
housing type	1	Standard housing										
nominal sensing distance Sn	B	250 - 2,500 mm direct diffuse										
adjustment	H	Remote teaching via cable										
output	1	0...10 V single voltage analogue output										
	2	4...20 mA single current analogue output										
	P	PNP - NO/NC digital output										
	W	PNP + IO-Link, two digital outputs with standard window and adjustable hysteresis function										
	6	4 ... 20 mA current analogue output + IO-Link										
	7	0 ... 10 V voltage analogue output + IO-Link										
housing material	1	Axial AISI 316L (DIN 1.4404) stainless steel housing										
cable / exit connector	E	M12 plug cable exit										
communication protocol	IO	IO-Link										

TECHNICAL SPECIFICATIONS

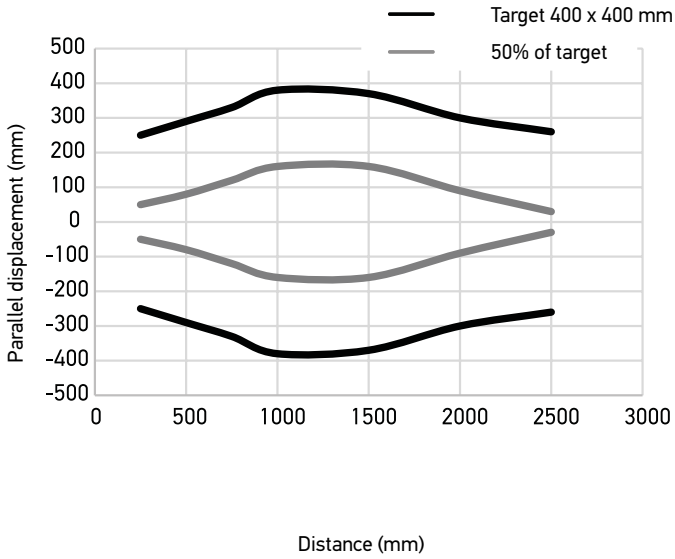
	UFT1B/H*-1E**
GENERAL DATA	
Operating principle	Diffuse reflection
DETECTION CAPABILITIES	
Nominal sensing distance	250 ... 2500 mm
Thermal drift	+/- 5%
Repeatability	1%
Hysteresis	3%
EMISSION DATA	
Beam angle	11 °
FUNCTIONS	
Sensitivity adjustment	Remote Teaching via cable
INPUT/OUTPUT	
Maximum switching frequency	1 Hz
Response time max	200 ms
Output type	0...10V, 4...20 mA, PNP, IO-Link + 0...10V, IO-Link + 4...20 mA, IO-Link + PNP
Output function	Analogue Output, Digital Output, Io-Link + Analogue Output, Io-Link + Digital
ELECTRICAL DATA	
Supply voltage	10 ... 30 V
Maximum residual ripple	500%
Short circuit protection	●
Reverse polarity protection	●
Impulsive overvoltage protections	●
Delay to availability	300ms
MECHANICAL DATA	
Dimensions	M30/ L=103.05 mm
Material	Stainless Steel AISI-316L
Connections	M12 (UFT1B/H*-1E**)
Weight	175 g
ENVIRONMENTAL DATA	
Operating Temperature	-10 ... 60 °C
Mechanical Protection	IP67, IP68, IP69K

AVAILABLE MODELS

Operating principle	Nominal sensing distance	Sensitivity adjustment	M12					
			Analogue Output		Io-Link + Analogue Output		Io-Link + Digital	Digital Output
Diffuse reflection	250 ... 2500 mm	Remote Teaching via cable	**UFT1B/H1-1E**	**UFT1B/H2-1E**	**UFT1B/H7-1EIO**	**UFT1B/H6-1EIO**	**UFT1B/HW-1EIO**	**UFT1B/HP-1E**

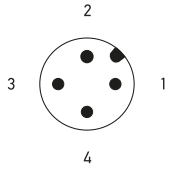
RESPONSE DIAGRAMS

UFT1B/H*-1E Parallel displacement**



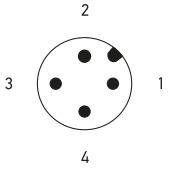
PLUGS

UFT1B/H1-1E



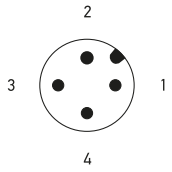
Brown	1	10...30Vdc
White	2	Teach
Blue	3	0Vdc
Black	4	0...10V

UFT1B/H2-1E



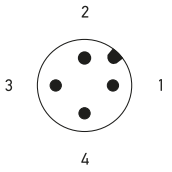
Brown	1	10...30Vdc
White	2	Teach
Blue	3	0Vdc
Black	4	4...20mA

UFT1B/HP-1E



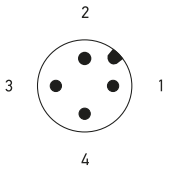
Brown	1	10...30Vdc
White	2	Teach
Blue	3	0Vdc
Black	4	NO/NC

UFT1B/H6-1EIO



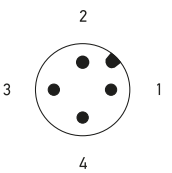
Brown	1	10...30Vdc
White	2	4...20mA
Blue	3	0Vdc
Black	4	IO-Link

UFT1B/H7-1EIO



Brown	1	10...30Vdc
White	2	0...10V
Blue	3	0Vdc
Black	4	IO-Link

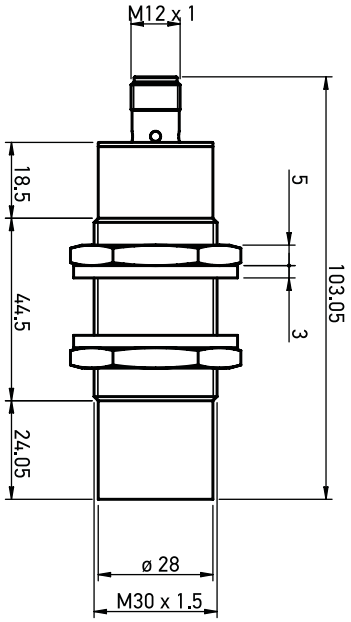
UFT1B/HW-1EIO

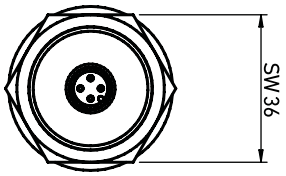


Brown	1	10...30Vdc
White	2	PNP
Blue	3	0Vdc
Black	4	IO-Link

MECHANICAL DRAWINGS

UFT1B/H*-1E**





(mm)