



# Micro Detectors

Italian Sensors Technology

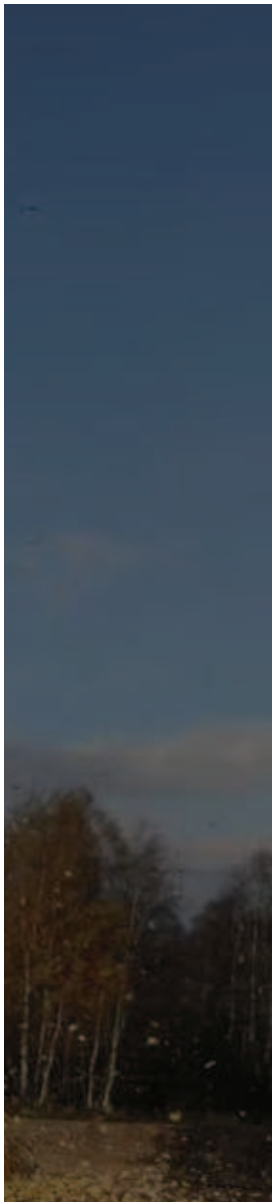


Catalogue  
short form

**Edition 01/2013**



# Ultrasonic Sensors







- M18 with Teach-in button
- M18 short housing
- M30
- Cubic
- Forks



## Ultrasonic

### M18 with Teach-in button

		UK1A	UK1C	UK1D	UK1F
					
		New models NPN & cable	New models NPN & cable	New models NPN & cable	New models NPN & cable
dimensions		M18	M18	M18	M18
direct diffuse		50...400 mm	100...900 mm	150...1,600 mm	200...2,200 mm
retroreflective		—	—	—	—
through beam		—	—	—	—
power supply	Vdc	●	●	●	●
	Vac	—	—	—	—
output type	PNP - NO e NC	—	—	—	—
	NPN - NO e NC	—	—	—	—
	2 x PNP with hysteresis function	Teach-in button	Teach-in button	Teach-in button	Teach-in button
	2 x NPN with hysteresis function	Teach-in button	Teach-in button	Teach-in button	Teach-in button
	PNP - NO / NC	Teach-in button	Teach-in button	Teach-in button	Teach-in button
	NPN - NO / NC	Teach-in button	Teach-in button	Teach-in button	Teach-in button
	0...10 V	Teach-in button	Teach-in button	Teach-in button	Teach-in button
	4...20 mA	Teach-in button	Teach-in button	Teach-in button	Teach-in button
	2 x PNP - NO / NC	Teach-in button	Teach-in button	Teach-in button	Teach-in button
	2 x NPN - NO / NC	Teach-in button	Teach-in button	Teach-in button	Teach-in button
1 x PNP - NO / NC + 1x 0...10 V	Teach-in button	Teach-in button	Teach-in button	Teach-in button	
1 x NPN - NO / NC + 1x 0...10 V	Teach-in button	Teach-in button	Teach-in button	Teach-in button	
1 x PNP - NO / NC + 4...20 mA	Teach-in button	Teach-in button	Teach-in button	Teach-in button	
1 x NPN - NO / NC + 4...20 mA	Teach-in button	Teach-in button	Teach-in button	Teach-in button	
temperature range		-20°C...+60°C	-20°C...+60°C	-20°C...+70°C (-20°C...+60°C cULus models)	-20°C...+70°C (-20°C...+60°C cULus models)
protection degree		IP67	IP67	IP67	IP67
housing material		PBT	PBT	PBT	PBT
front-end material		epoxy glass resin	epoxy glass resin	epoxy glass resin	epoxy glass resin
output	cable	●	●	●	●
	M12 plug	●	●	●	●
	M12 pig-tail	—	—	—	—
ATEX		II3GD (only PNP with plug exit)	II3GD (only PNP with plug exit)	II3GD (only PNP with plug exit)	II3GD (only PNP with plug exit)
other certifications					

## M18 short housing

**UK6A**

New analogue and cable models

New reduced blind zone



**UK6C**

New analogue and cable models



M18 - short housing

M18 - short housing

35...300 mm

120...900 mm

—

—

—

—

•

•

—

—

—

—

—

—

Teach-in cable

Teach-in cable

Teach-in cable

Teach-in cable

Teach-in cable

Teach-in cable

—

—

—

—

—

—

-20°C...+60°C

-20°C...+60°C

IP67

IP67

PBT

PBT

epoxy glass resin

epoxy glass resin

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Ultrasonic

M30



		UT1B	UT1D	UT2F
dimensions		M30	M30	M30
direct diffuse		250...3,500 mm	200...4,500 mm	350...6,000 mm
retroreflective		—	—	—
through beam		—	—	—
power supply	Vdc	●	●	●
	Vac	—	—	—
output type	PNP - NO and NC	—	—	—
	NPN - NO and NC	Teach-in button	—	—
	2 x PNP with hysteresis function	Teach-in button	—	—
	2 x NPN with hysteresis function	Teach-in button	—	—
	PNP - NO / NC	Teach-in button	—	—
	NPN - NO / NC	Teach-in button	—	—
	0... 10 V	Teach-in button	—	—
	4...20 mA	Teach-in button	—	—
	2 x PNP - NO / NC 2 x NPN - NO / NC	Teach-in button	Teach-in button	Teach-in button
	1 x PNP - NO / NC + 1 x 0...10 V 1 x NPN - NO / NC + 1 x 0...10 V	Teach-in button	Teach-in button	Teach-in button
1 x PNP - NO / NC + 4...20 mA 1 x NPN - NO / NC + 4...20 mA	Teach-in button	Teach-in button	Teach-in button	
2 x PNP - NO / NC + 1 x 4...20 mA 2 x NPN - NO / NC + 1 x 4...20 mA	—	—	—	
temperature range		-20°C...+70°C	-20°C...+70°C	-20°C...+70°C
protection degree		IP67	IP67	IP67
housing material		PBT	PBT	PBT
front-end material		epoxy glass resin	epoxy glass resin	epoxy glass resin
output	cable	●	●	●
	M12 plug	●	●	●
	M12 pig-tail	—	—	—
ATEX		—	—	—
other certifications				

Cubic		
UHZ	UHS	QU6
		
30x20x15 mm	24x50x15 mm	80x67x50 mm
—	—	600...6,000 mm
—	—	—
0...300 mm	0...1.100 mm	—
●	●	●
—	—	—
no reg.	no reg.	—
no reg.	no reg.	—
no reg.	no reg.	—
—	—	—
—	—	Teach-in cable
—	—	Teach-in cable
—	—	—
—	—	—
—	—	—
-15°C...+60°C	-15°C...+60°C	-20°C...+70°C
IP67	IP67	IP65
PBT	PBT	PBT
ceramic	ceramic	ceramic
●	●	—
—	—	●
—	—	—
—	—	—
CE	CE	CE

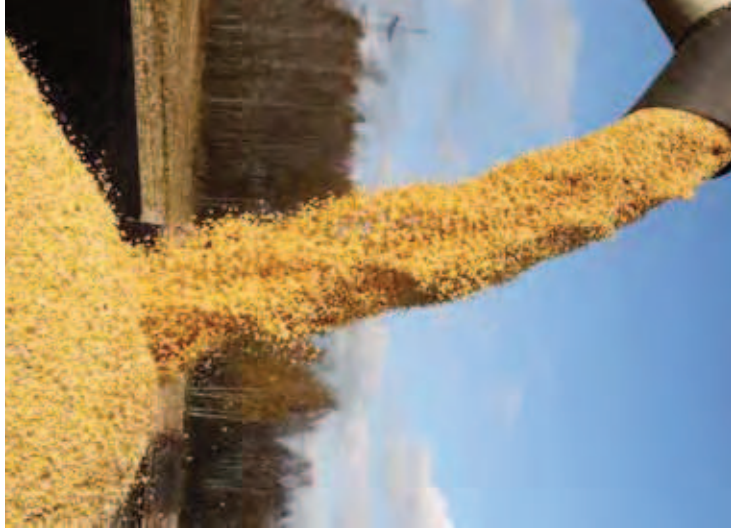
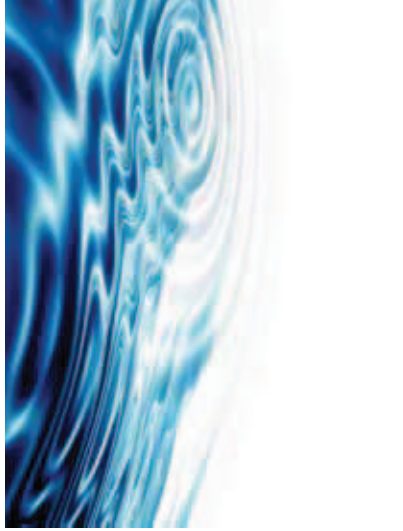


Ultrasonic  
**Fork**

**FC8** New series



nominal sensing distance $S_n$		3 mm
depth detection slot		69 mm
minimum object dimension		—
emission		ultrasonic
LASER		—
ultrasonic		•
switching frequency		1,500 Hz
supply voltage	Vdc	•
	Vac	—
output type	NPN - NO	—
	NPN - NC	—
	PNP - NO	—
	PNP - NC	—
	NPN - NO / NC	•
	PNP - NO / NC	•
	NPN/PNP - NO/NC	—
temperature range		- 5°C...+55°C
protection degree		IP65
housing material		painting aluminium
output	M8 3 pins plug	—
	M8 4 pins plug	•
ATEX		—
other certifications		



Ultrasonic Sensors