

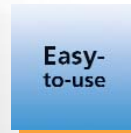
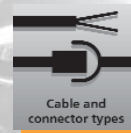


Optimum cylinder sensors for short-stroke cylinders.



Powerful and long life even for special cylinders.

- Short travel distance for high-precision position detection.
- Exact position detection thanks to a very small hysteresis of ≤ 1 mm.
- Reliable detection of weak magnetic fields.
- Convenient:
Easy fit "drop from the top" into a slot.
- Only 25 mm length sensor for many cylinder sizes.



AMR cell for the sensitive touch.

The new cylinder sensors use an AMR sensing element. This operates to the magnetoresistive principle. The AMR cell has an extremely sensitive reaction to magnetic fields. So the sensors can be used wherever exact position detection and small hysteresis are important (e.g. short-stroke cylinders).

Robust design and solid fixing

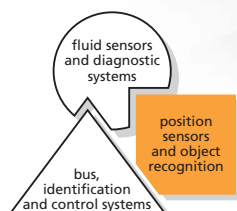
The sensor is immediately locked in the slot by its self-locking mechanism. The moulded cable and fixing point additionally provide incomparable strain relief.

Adapter for almost any cylinder profile

Thanks to the wide selection of adapter accessories the T-slot sensor can be fixed to almost every clean-line, tie rod, integrated profile or trapezoidal slot cylinder.



The online configurator for the ifm cylinder sensors:
www.ifm.com/cylindersensor

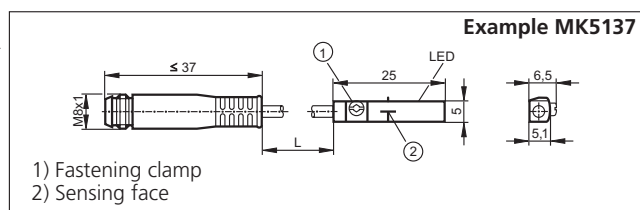




Applications: for T-slot cylinders used in an industrial environment, machine tools as well as hygienic and wet areas (food industry).

Housing / Dimensions [mm]	Electrical design	f [Hz]	Protection	Operating temperature [°C]	Housing material	I _{load} [mA]	Order no.
Connection cable 0.3 m PUR with M8 connector · output function · 3-wire							
25 x 5 x 5,1	DC NPN	> 3000	IP 67, III	-25...85	PA, stainless steel	100	MK5137
25 x 5 x 5,1	DC PNP	> 3000	IP 67, III	-25...85	PA, stainless steel	100	MK5138
Connection cable 0.3 m PUR with M8 connector · output function · 3-wire							
25 x 5 x 5,1	DC PNP	> 3000	IP 67, III	-25...85	PA, stainless steel	100	MK5155
Connection cable 0.3 m PUR with M8 connector rotatable · output function · 3-wire							
25 x 5 x 5,1	DC PNP	> 3000	IP 67, III	-25...85	PA, stainless steel	100	MK5159
Connection cable 0.3 m PUR with M12 connector · output function · 3-wire							
25 x 5 x 5,1	DC PNP	> 3000	IP 67, III	-25...85	PA, stainless steel	100	MK5139
Connection cable 2 m PUR · output function · 3-wire							
25 x 5 x 5,1	DC PNP	> 3000	IP 67, III	-25...85	PA, stainless steel	100	MK5140
Connection cable 2 m PUR · output function · 3-wire							
25 x 5 x 5,1	DC PNP	> 3000	IP 67, III	-25...85	PA, stainless steel	100	MK5156
Connection cable 0.3 m PVC with M12 connector · output function · 3-wire · for hygienic and wet areas							
25 x 5 x 5,1	DC PNP	> 3000	IP 67/IP 69K, III	-25...85	PA, stainless steel	100	MK5157
Connection cable 2 m PVC · output function · 3-wire · for hygienic and wet areas							
25 x 5 x 5,1	DC PNP	> 3000	IP 67/IP 69K, III	-25...85	PA, stainless steel	100	MK5158

Dimensions



Mounting accessories cylinder types

Type	Description	Order no.
	Trapezoidal slot, aluminium alloy	E11957
	Memorisation block, PA, stainless steel	E11798
	Ø integrated profile 10...14 mm Ø piston 32...63 mm, aluminium	E11799
	Ø integrated profile > 14 mm Ø piston 80...100 mm, aluminium	E11801
	Ø tie rod up to 10 mm Ø piston 32...100 mm, aluminium	E11797
	Ø tie rod up to 14 mm Ø piston < 125 mm, aluminium	E11799

Common technical data

Operating voltage	[V]	10...30 DC
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
LED display		yellow
Repeatability	[mm]	< 0.2
Hysteresis	[mm]	typ. 1
Travel speed	[m/s]	< 10
Response sensitivity	[mT]	2
Power-on delay time	[ms]	< 30

Connectors and splitter boxes

Type	Description	Order no.
	Socket, M8, 3-pole, 2 m black, PUR cable	E11486
	Socket, M8, 3-pole, 5 m black, PUR cable	E11487
	Socket, M12, 4-pole, 2 m black, PUR cable	EVC001
	Socket, M12, 4-pole, 5 m black, PUR cable	EVC002
	Splitter box M8, 8 locations, 5 m black, PUR cable, LED	E11214

ifm article no. 7511276 · Printed in Germany on non-chlorine paper. · We reserve the right to make technical alterations without prior notice. · 04.2008

Position sensors and object recognition