

UGKB0170

Ultrasonic sensors • Through-beam sensor, fork-shaped



Ultrasonic sensors are contactless, wear-free position switches that can be used even under harsh environmental conditions. A key advantage of these devices is that the material and surface properties of the objects to be detected can be virtually any type. They perform recognition of solid, liquid, granular, and powdered materials. The shape and color of the objects have no effect on the recognition result. The ability to recognize transparent materials such as films or liquids is also a feature. Ultrasonic sensors are used for distance measurement (e.g., diameter detection, loop control), level or fill-level monitoring (e.g., silo detection), and for positioning and presence detection (e.g., glass pane positioning, film tear detection, glass bottle detection).

Electrical features

Response/decay time	1 ms
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	M8-connector
Type of switching output	PNP
Rated switching current	500 mA
No-load current	40 mA
Sound outlet	Lateral
Switching frequency	150 Hz
Protection class	III
Carrier frequency	300 kHz
Operating voltage (DC)	18 - 30 V
Measuring range	114 mm

Mechanical features

Design	Cuboid
Width	90 mm
Fork width	114 mm
Height	140 mm
Length	13 mm
Degree of protection (IP)	IP67
Housing material	aluminum
Ambient temperature	-15 - 60 °C

Other features

Operating frequency	300 kHz
Version	Fork

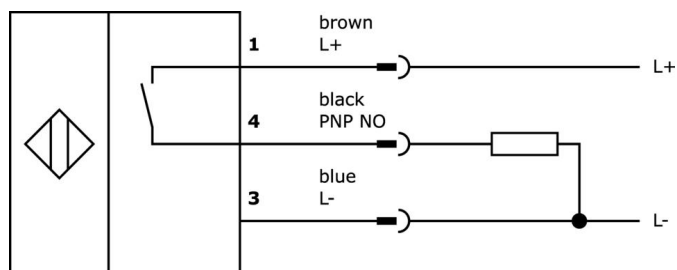
Classification

ETIM 8

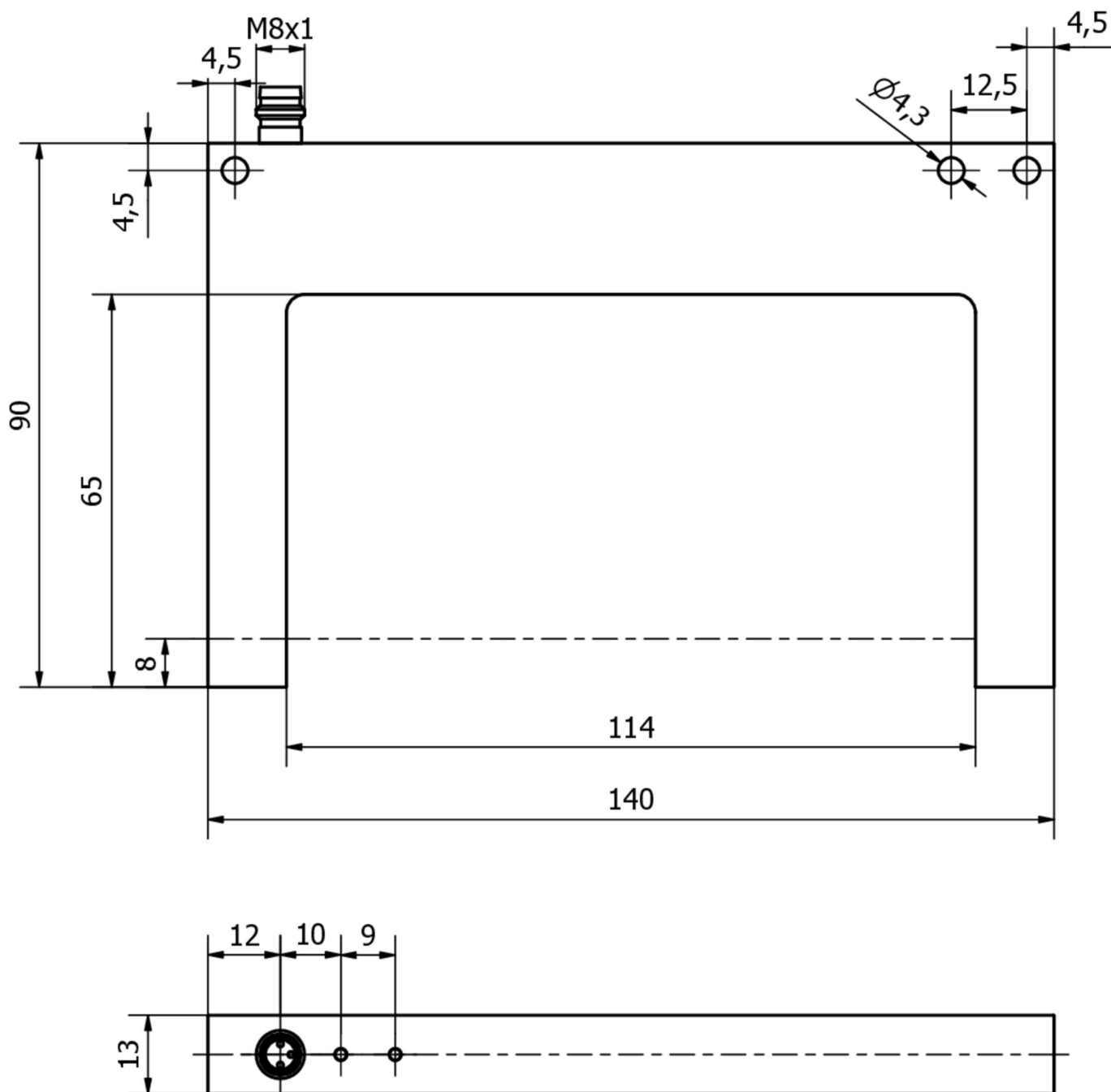
More

IPF Product Group	250 ultrasonic sensors
packaging dimensions	173 x 107 x 54 mm
gross weight	170 g
customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

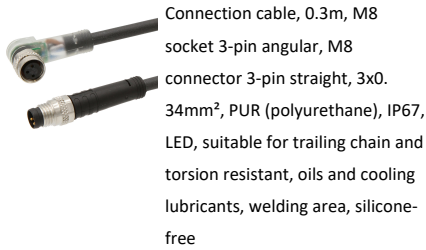


Dimensional drawing

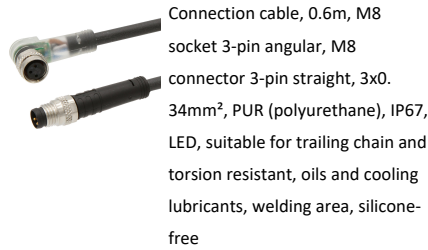


Extract accessories program

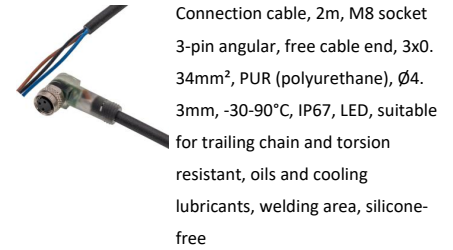
VK030F72



VK060F72



VK200271



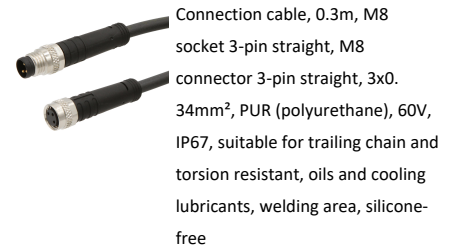
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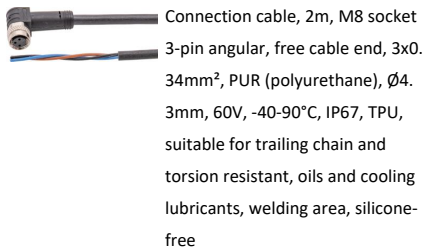
VK030F70



VK030F74



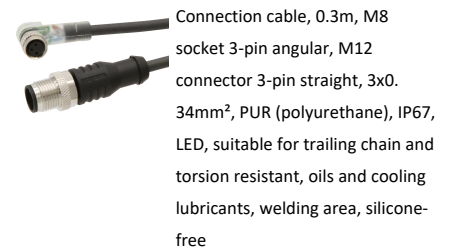
VK200071



VK200075



VK030F82



You can find further accessories on our homepage



Installation

Mounting / installation may only be carried out by a qualified electrician!



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

Safety warnings

/ Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

/ Never use these devices in applications where the safety of a person depends on their functionality.