

# XECRO

most reliable sensor technology

inductive • capacitive • optoelectronics • touch 'n indicators



## Most Reliable Sensor Technology

- *electric field*
- *inductive*
- *capacitive*
- *optical*



## At a Glance

“Talent for innovation and customers orientation are the key factors of our success”

## Think for Technology

XECRO is an independent company with more than 15 years of experience in the sensor industry.

During the years XECRO expanded its knowledge and production line to one of the completest range of inductive and capacitive sensors in the automation industry; focusing on the highest performance available.

Our innovations in this technologies results as the thinnest and shortest sensors, quad sensing distances, high pressure and high temperature resistant proximity switches. XECRO develops, produces and commercializes industrial sensors and general industrial electronics worldwide.

## Global Organization

XECRO is one of the leading companies in inductive and capacitive technology and serves customers in Europe, North and Latin America, Asia, Africa and Middle East. The organization is regulated in accordance with the strict directives of ISO 9001-2000 .

XECROs headquarter located in Hanover, Germany, represents the focal point; our business counts with highly motivated management and working team: Financial and Sales dept., R & D, Customer Assistance, Shipping dept. and Warehouse are located in a modern 1100 square meter building. Customers can benefit from our synergic organization: the production is made by XECRO in Hanover, Germany and in collaboration with selected strategic production facilities inside the EU.

## Dynamic R & D

R & D resources are the heart of the company. Thanks to expertise, gained during the years, in implementing individual solutions for customer applications, we are able to adapt our products to almost any customer needs.

In close cooperation between our business partners and development department, XECRO delivers customized sensor solutions based on the following technologies:

- Electric-Field, human touch devices and touch panels
- Optical
  - dirt resistant
  - miniature construction
  - high temperature resistant
- Capacitive
  - highest performance
  - high temperature resistant
- Inductive
  - highest performance
  - metal face, one piece construction
  - high temperature resistant
  - high pressure proof
  - analog output
  - namur

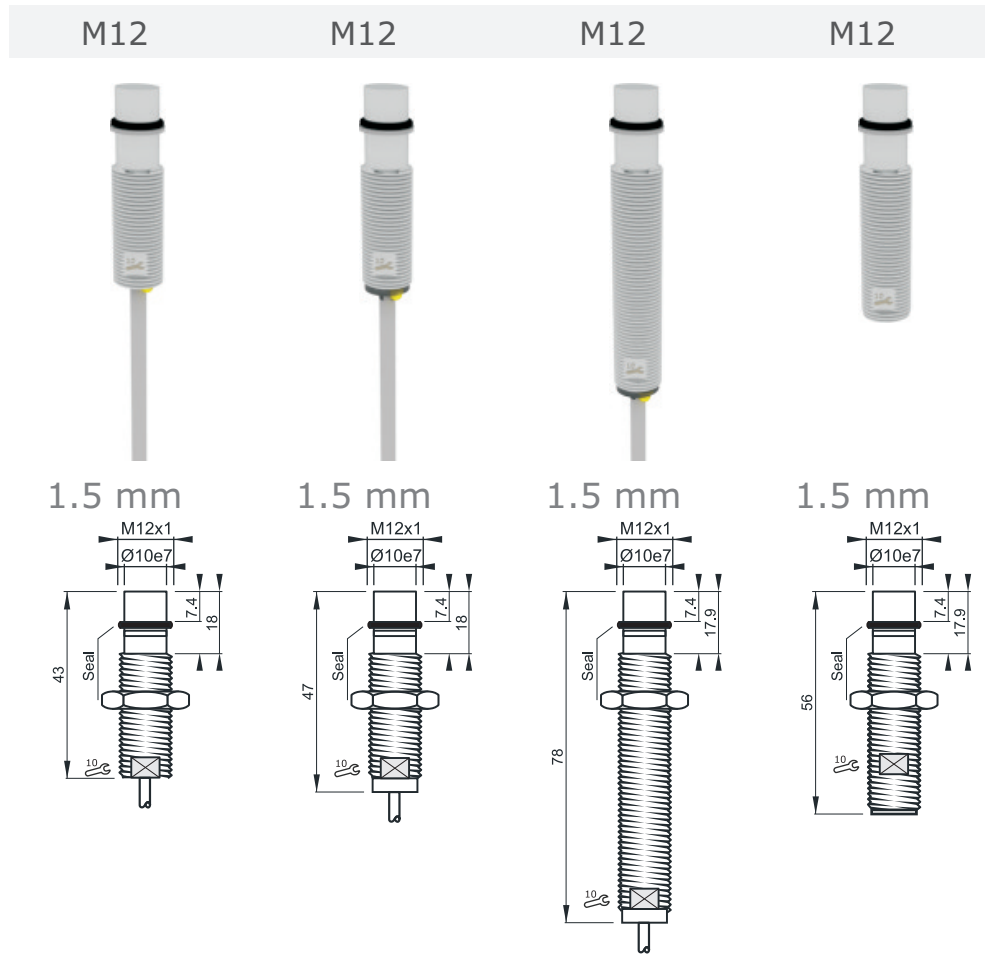
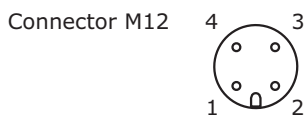
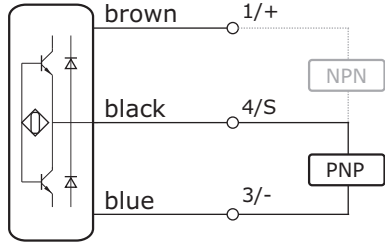
If special housings are required, we design them in 3D.

XECRO has rapid prototyping service for any shape and can provide IGES or STEP files in advance to check that the later integration is possible.

All XECRO products are built with the highest accuracy and are fully tested after production. The C€ print on the products confirms with EU and EN standards and directives.



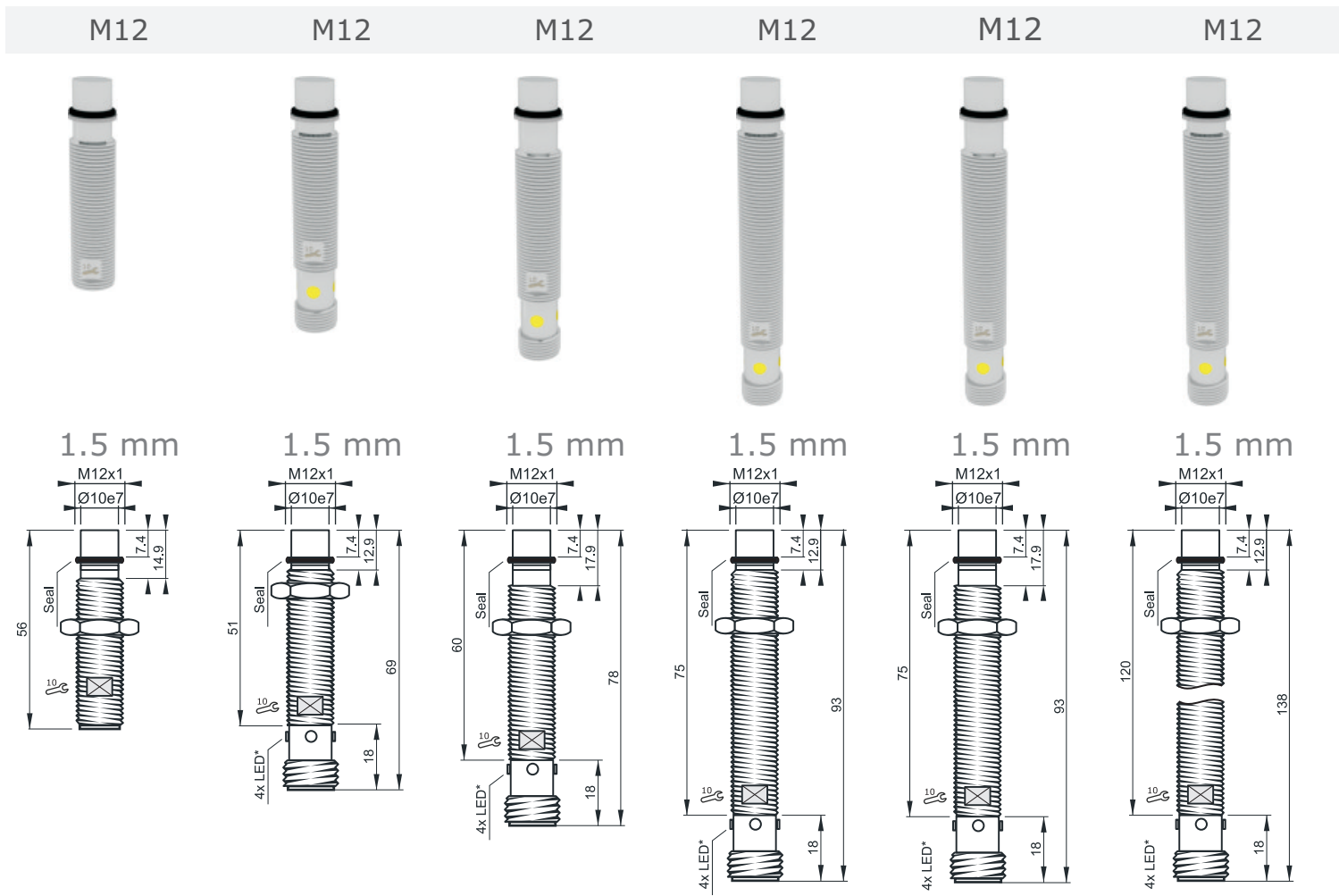
### Output Schematics



### SPECIFICATIONS

	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar
Sensing Distance	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded
Pressure Tightness	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI
Operating Voltage	10...30 VDC, 3-wire	10...30 VDC, 3-wire	10...30 VDC, 3-wire	10...30 VDC, 3-wire
Reverse Polarity Protection	built-in	built-in	built-in	built-in
Current Consumption	< 8 mA	< 8 mA	< 8 mA	< 8 mA
Current Load Capability	200 mA	200 mA	200 mA	200 mA
Short Circuit Protection	built-in - self resetting	built-in - self resetting	built-in - self resetting	built-in - self resetting
Voltage Drop	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA
Switching Frequency	2000 Hz	2000 Hz	2000 Hz	2000 Hz
Repeatability	< 3 %	< 3 %	< 3 %	< 3 %
Hysteresis	< 20 %	< 20 %	< 20 %	< 20 %
Operating Temperature	-25...75 °C	-25...75 °C	-25...75 °C	-25...75 °C
Protection Class	IP 69k, IP 67	IP 69k, IP 67	IP 69k, IP 67	IP 69k, IP 67
Sensing Face Material	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303
Housing Material	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303
Connection	High-Flex PVC, 2m	High-Flex PVC, 2m	High-Flex PVC, 2m	Connector M12, 4-pole
Output Indicator	Integrated	Integrated	Integrated	Integrated
<b>Article Code</b>				
PNP, NO	IHP12-S1.5PO43/A2P	IHP12-S1.5PO47/A2P	IHP12-S1.5PO78/A2P	IHP12-S1.5PO56/A12
PNP, NC	IHP12-S1.5PC43/A2P	IHP12-S1.5PC47/A2P	IHP12-S1.5PC78/A2P	IHP12-S1.5PC56/A12
NPN, NO	IHP12-S1.5NO43/A2P	IHP12-S1.5NO47/A2P	IHP12-S1.5NO78/A2P	IHP12-S1.5NO56/A12
NPN, NC	IHP12-S1.5NC43/A2P	IHP12-S1.5NC47/A2P	IHP12-S1.5NC78/A2P	IHP12-S1.5NC56/A12

# Inductive Proximity Switches High Pressure Proof (500 bar)



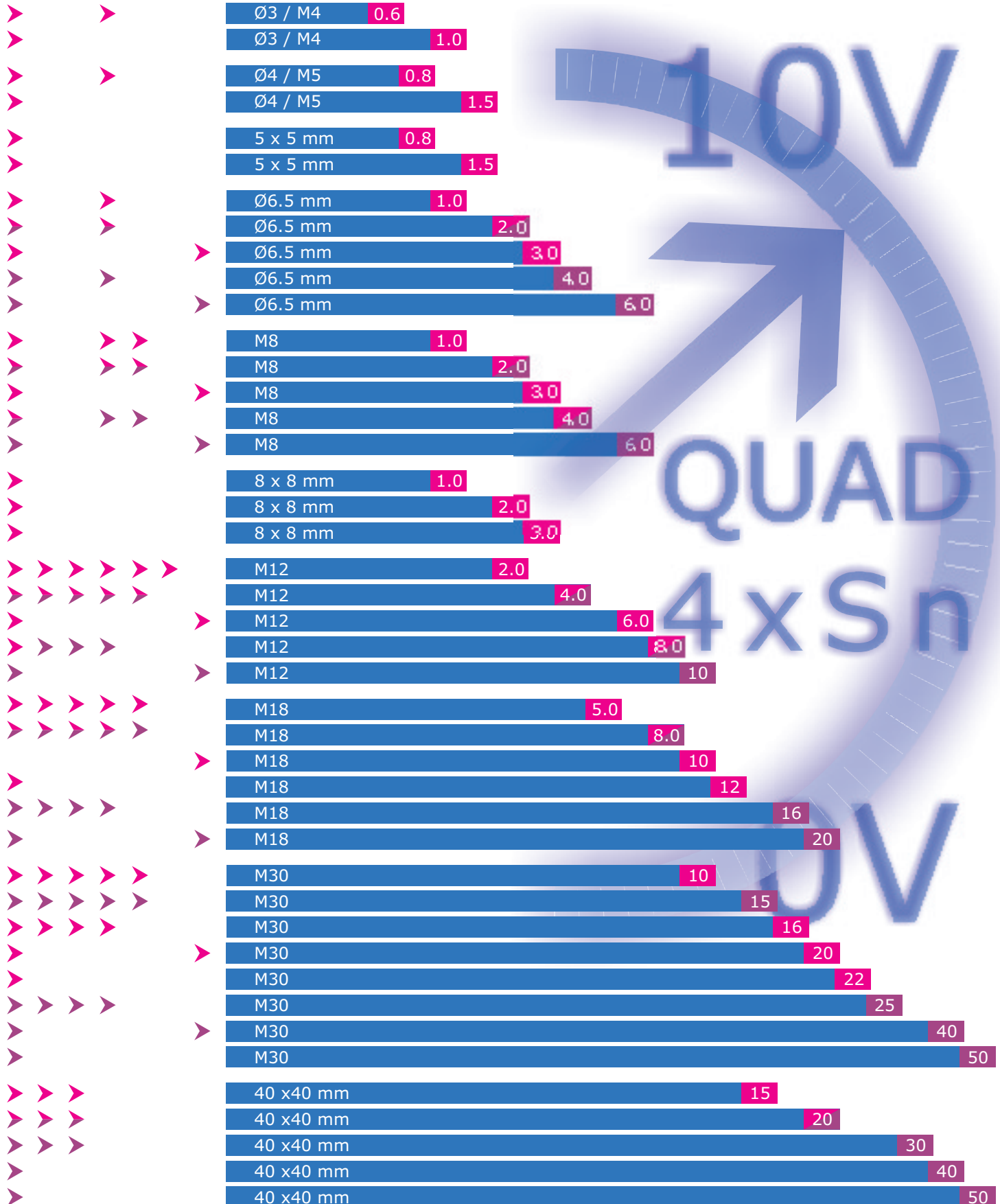
M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar	M12x1 - 500 bar
1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded	1.5 mm - Shielded
500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI	500 bar / 7250 PSI
10...30 VDC, 3-wire built-in	10...30 VDC, 3-wire built-in	10...30 VDC, 3-wire built-in	10...30 VDC, 3-wire built-in	10...30 VDC, 3-wire built-in	10...30 VDC, 3-wire built-in
< 8 mA	< 8 mA	< 8 mA	< 8 mA	< 8 mA	< 8 mA
200 mA	200 mA	200 mA	200 mA	200 mA	200 mA
built-in - self resetting	built-in - self resetting	built-in - self resetting	built-in - self resetting	built-in - self resetting	built-in - self resetting
< 1.5 V @ 200 mA	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA	< 1.5 V @ 200 mA
2000 Hz	2000 Hz	2000 Hz	2000 Hz	2000 Hz	2000 Hz
< 3 %	< 3 %	< 3 %	< 3 %	< 3 %	< 3 %
< 20 %	< 20 %	< 20 %	< 20 %	< 20 %	< 20 %
-25...75 °C	-25...75 °C	-25...75 °C	-25...75 °C	-25...75 °C	-25...75 °C
IP 69k, IP 67	IP 69k, IP 67	IP 69k, IP 67	IP 69k, IP 67	IP 69k, IP 67	IP 69k, IP 67
1.4305 / SS303	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303
1.4305 / SS303	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303	1.4305 / SS303
Connector M12, 4-pole Integrated	Connector M12, 4-pole Integrated	Connector M12, 4-pole Integrated	Connector M12, 4-pole Integrated	Connector M12, 4-pole Integrated	Connector M12, 4-pole Integrated
IHP12-S1.5PO57/A12	IHP12-S1.5PO69/A12	IHP12-S1.5PO78/A12	IHP12-S1.5PO93/A12	IHP12-S1.5PO94/A12	IHP12-S1.5PO138/A12
IHP12-S1.5PC57/A12	IHP12-S1.5PC69/A12	IHP12-S1.5PC78/A12	IHP12-S1.5PC93/A12	IHP12-S1.5PC94/A12	IHP12-S1.5PC138/A12
IHP12-S1.5NO57/A12	IHP12-S1.5NO69/A12	IHP12-S1.5NO78/A12	IHP12-S1.5NO93/A12	IHP12-S1.5NO94/A12	IHP12-S1.5NO138/A12
IHP12-S1.5NC57/A12	IHP12-S1.5NC69/A12	IHP12-S1.5NC78/A12	IHP12-S1.5NC93/A12	IHP12-S1.5NC94/A12	IHP12-S1.5NC138/A12

## INDUCTIVE SENSORS

PNP / NPN  
2-wire DC  
2-wire AC  
NAMUR  
Temperature Proof  
Pressure Proof  
Analog Voltage

SHIELDED  
UNSHIELDED

0.6 mm 0.8 mm 1.0 mm 1.5 mm 2.0 mm 3.0 mm 4.0 mm 5.0 mm 6.0 mm 8.0 mm 10 mm 12 mm 15 mm 16 mm 20 mm 22 mm 25 mm 30 mm 40 mm 50 mm





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