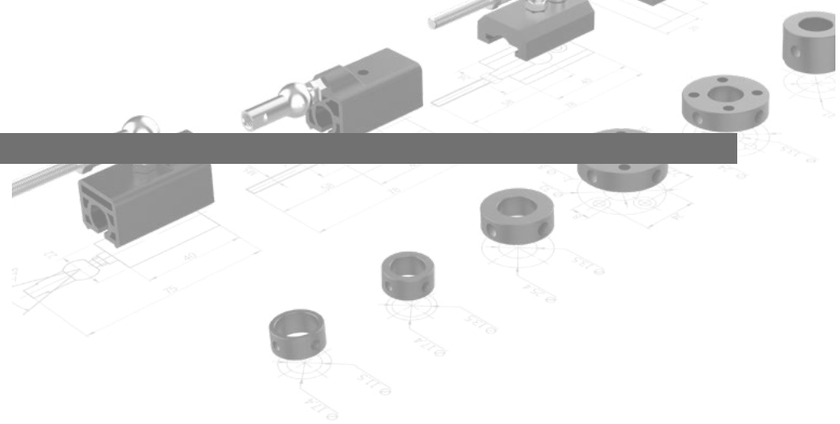
TBF sensor

2025 SELECTION GUIDE

Accessories selection manual



TECHNOLOGY PERCEIVES THE FUTURE



Contects

Standard Magnetic Ring And Magnetic Spacer 03

Float 13

Slider Magnet，Floating Magnet 15

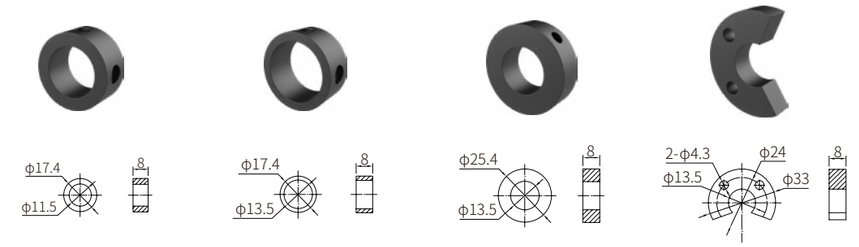
Fixing Clip 18

Aerial plug And Connector 19

Shielded Cable、Standard Integrated Cable 24

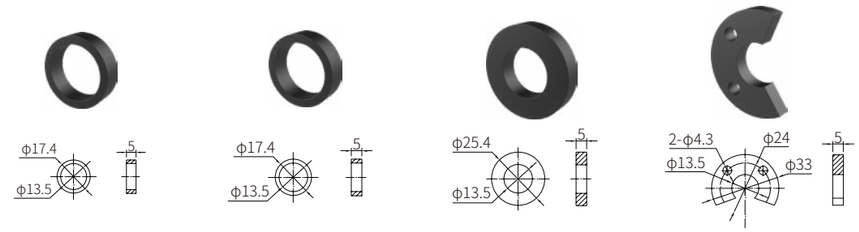
Position Magnet、Magnetic Isolation Spacer、Fixing Clip、Connecting Link

“*” Common Standard Magnetic Ring And Magnetic Isolation Spacer

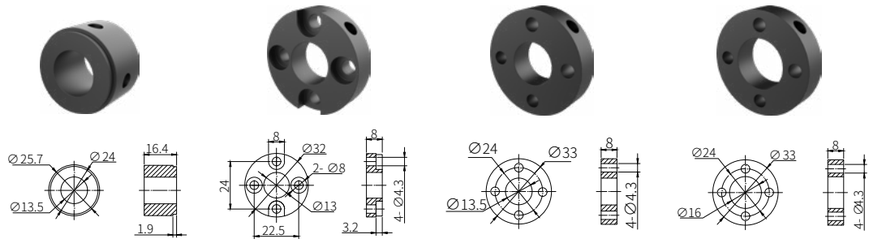


Name	Ring Magnet	Ring Magnet	Ring Magnet	U-shaped Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1020**	**12-1032***	**12-1019***	**12-1017***

Matching Magnetic Spacer

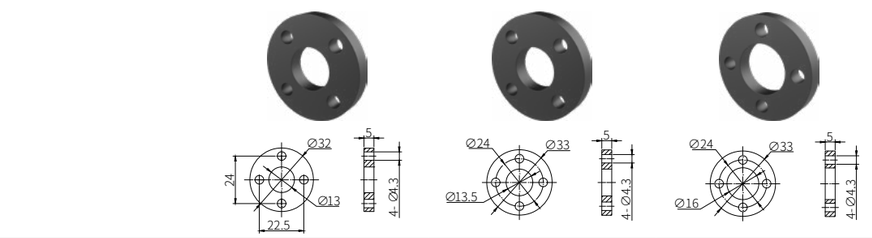


Name	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer	U-shaped Magnetic Isolation Spacer
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1037**	**12-1037***	**12-1021***	**12-1018***

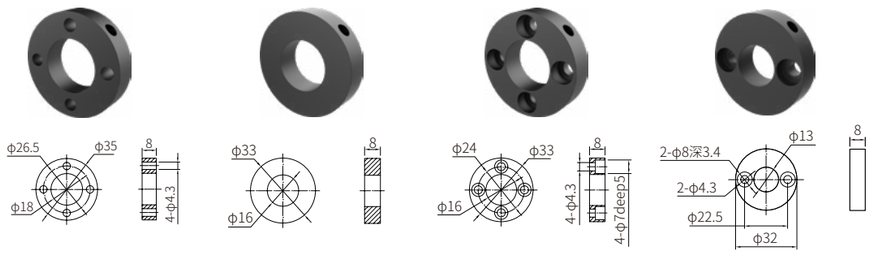


Name	Ring Magnet	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1026***	**12-1024***	**12-1001***	**12-1033***

Matching Magnetic Spacer

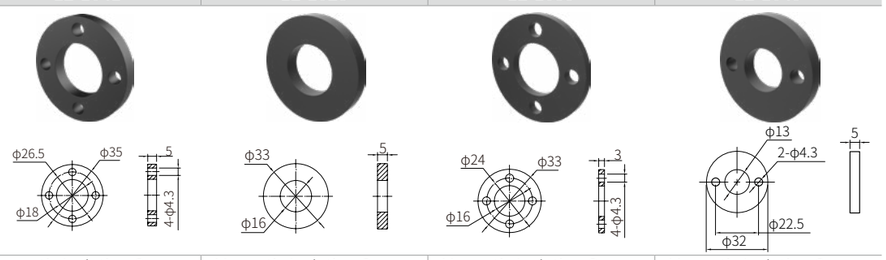


Name		Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer
Material		Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code		**12-1025***	**12-1008***	**12-1034***

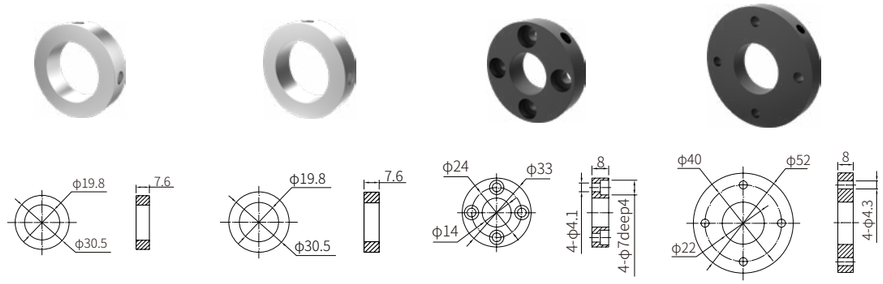


Name	Ring Magnet	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1041**	**12-1028**	**12-1035**	**12-1049**

Matching Magnetic Spacer

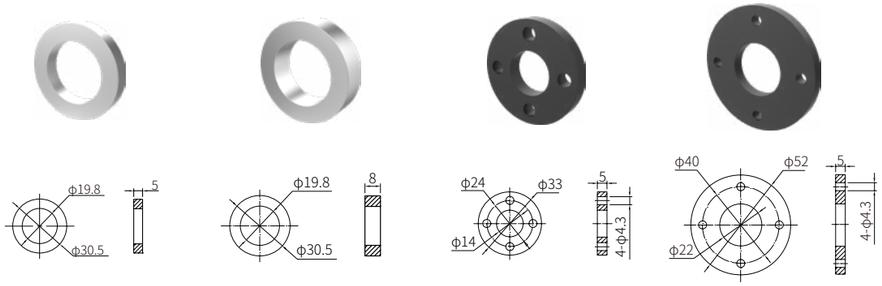


Name	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1042**	**12-1043**	**12-1047**	**12-1061**

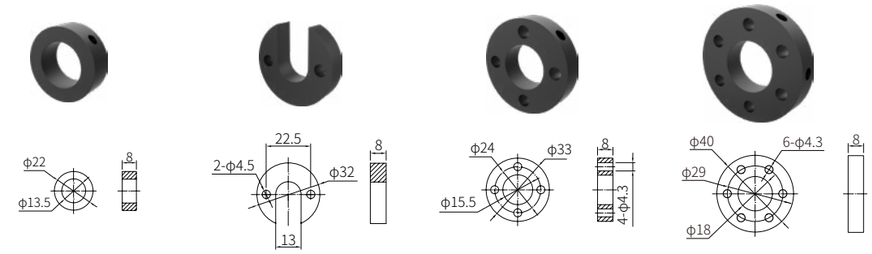


Name	Ring Magnet	Ring Magnet	Ring Magnet	Ring Magnet
Material	Stainless Steel	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1050**	**12-1065**	**12-1057**	**12-1055**

Matching Magnetic Spacer

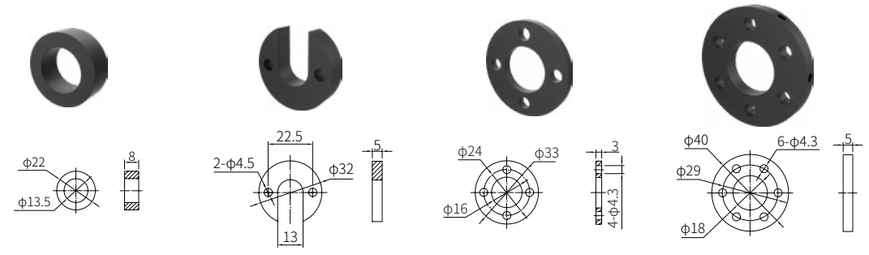


Name	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer
Material	Stainless Steel	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1051**	**12-1063**	**12-1062**	**12-1056**

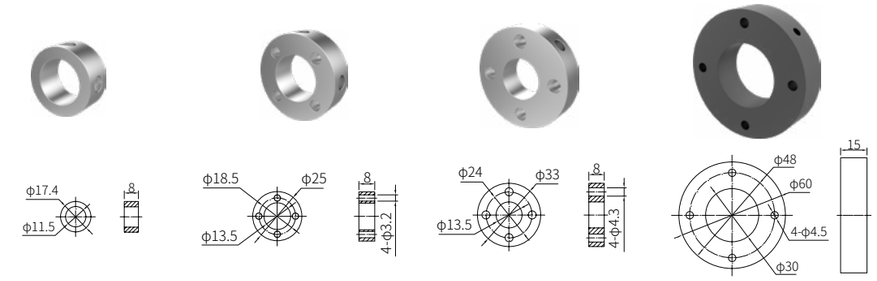


Name	Ring Magnet	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1067**	**12-1095**	**12-1066**	**12-1054**

Matching Magnetic Spacer

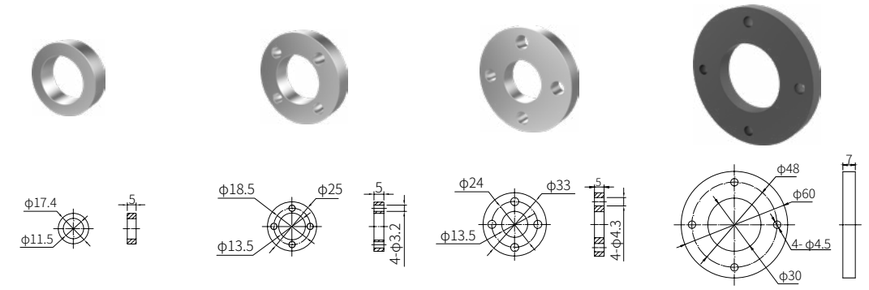


Name	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1126**	**12-1099**	**12-1047**	**12-1071**

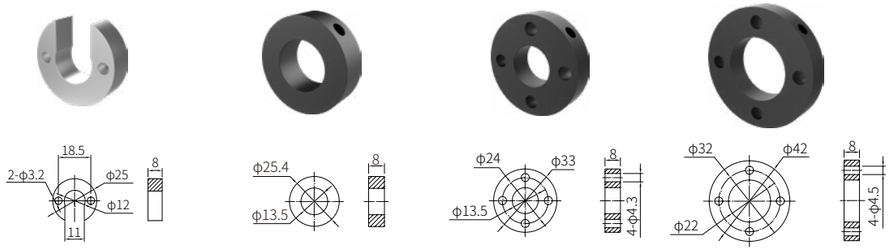


Name	Ring Magnet	Ring Magnet	Ring Magnet	Ring Magnet
Material	Stainless Steel	Stainless Steel	Stainless Steel	Aluminum Alloy
Order Code	**12-1069**	**12-1073**	**12-1091**	**12-1082**

Matching Magnetic Spacer

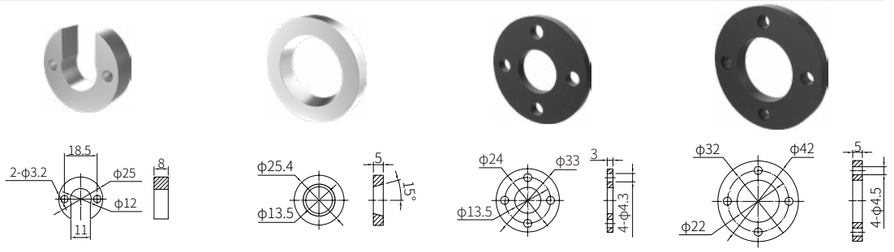


Name	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer
Material	Stainless Steel	Stainless Steel	Stainless Steel	Aluminum Alloy
Order Code	**12-1070**	**12-1074**	**12-1092**	**12-1142**

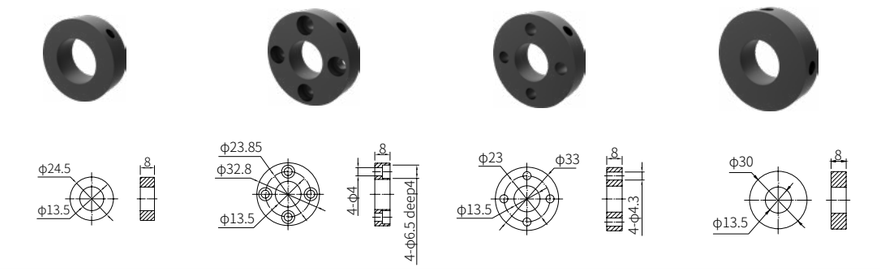


Name	Ring Magnet	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Injection-molded Ferrite	Aluminum Alloy
Order Code	**12-1103**	**12-1019**	**12-1118**	**12-1105**

Matching Magnetic Spacer

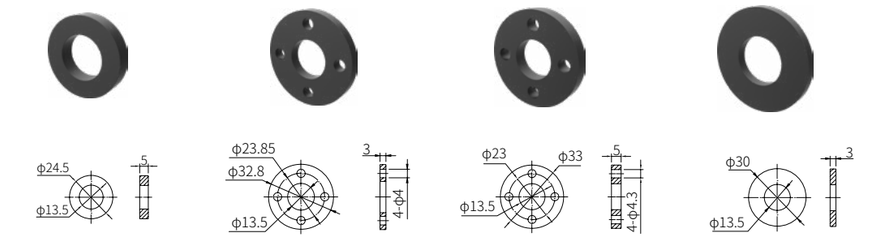


Name	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1104**	**12-1111**	**12-1040**	**12-1117**

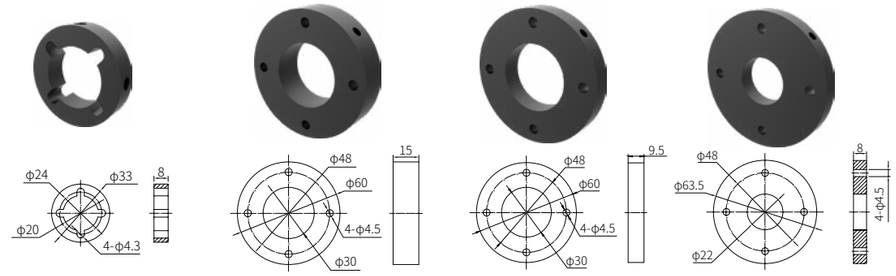


Name	Ring Magnet	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1098**	**12-1135**	**12-1131**	**12-1161**

Matching Magnetic Spacer

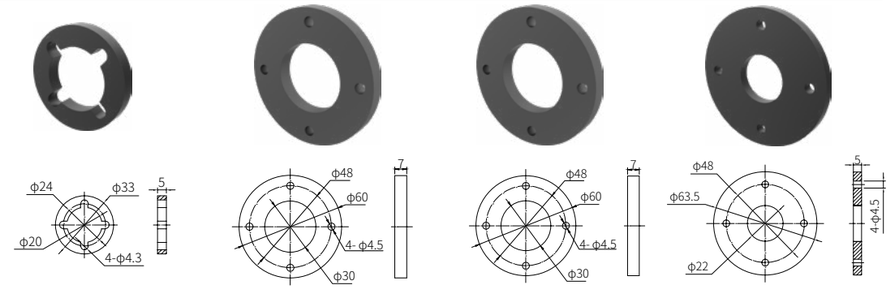


Name	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	
Order Code	**12-1097**	**12-1136**	**12-1130**	**12-1162**

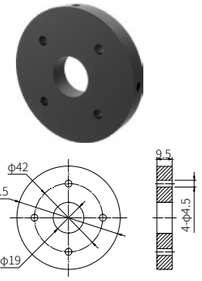


Name	Ring Magnet	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1122**	**12-1127**	**12-1151**	**12-1132**

Matching Magnetic Spacer

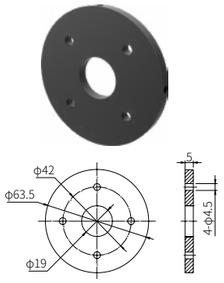


Name	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer	Magnetic Isolation Spacer
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1123**	**12-1142**	**12-1142**	**12-1133**

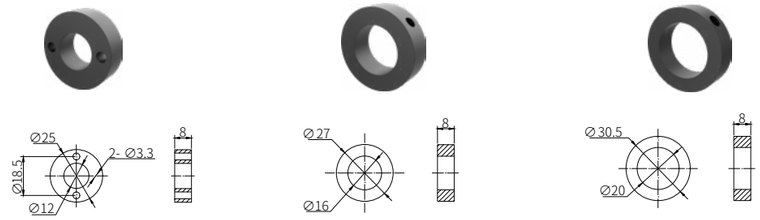


Name	Ring Magnet
Material	Aluminum Alloy
Order Code	**12-1156**

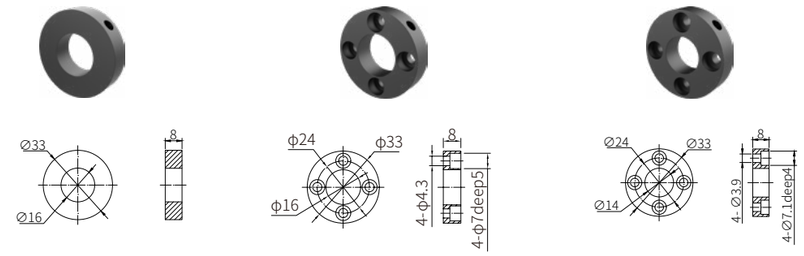
Matching Magnetic Spacer



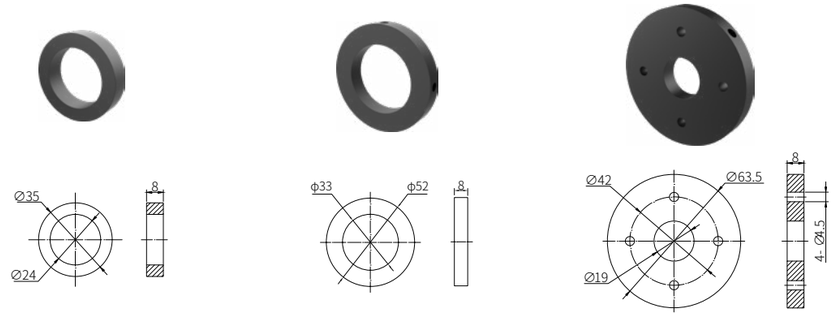
Name	Magnetic Isolation Spacer
Material	Aluminum Alloy
Order Code	**12-1157**



Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1030**	**12-1029**	**12-1022**

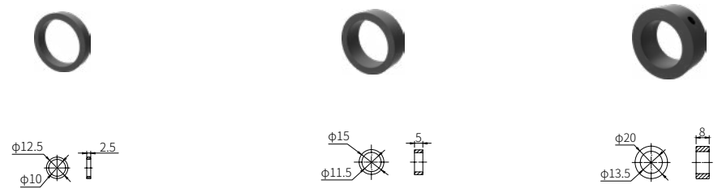


Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1028**	**12-1035**	**12-1036**

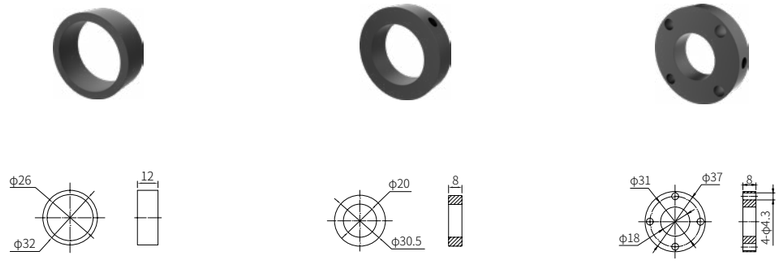


Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1027**	**12-1128**	**12-1023**

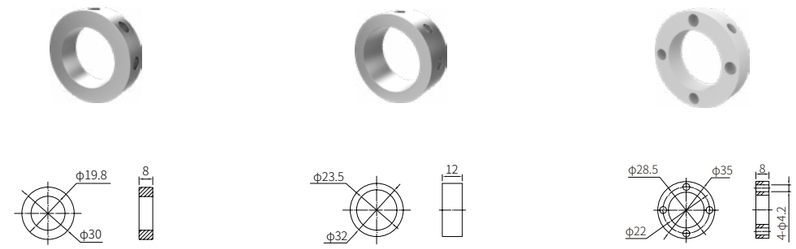
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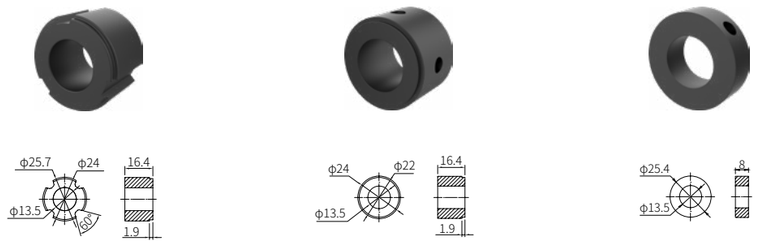
Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1147**	**12-1141**	**12-1159**



Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1085**	**12-1089**	**12-1148**



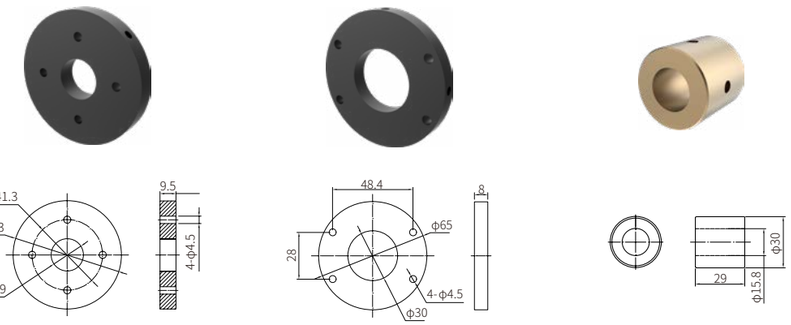
Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Stainless Steel	Stainless Steel	PTFE (Polytetrafluoroethylene)
Order Code	**12-1088**	**12-1084**	**12-1044**



Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Injection-molded Ferrite
Order Code	**12-1112**	**12-1120**	**12-1140**

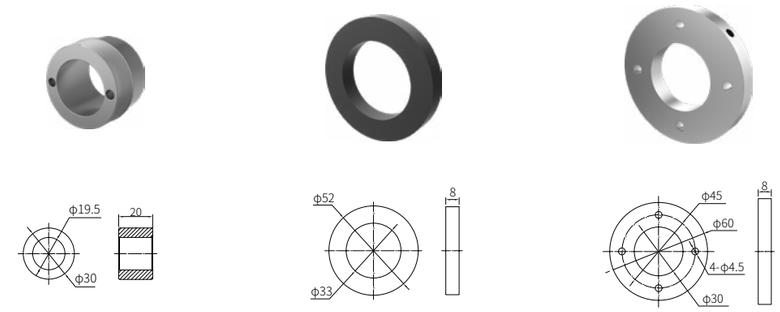


Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Order Code	**12-1121**	**12-1058**	**12-1053**

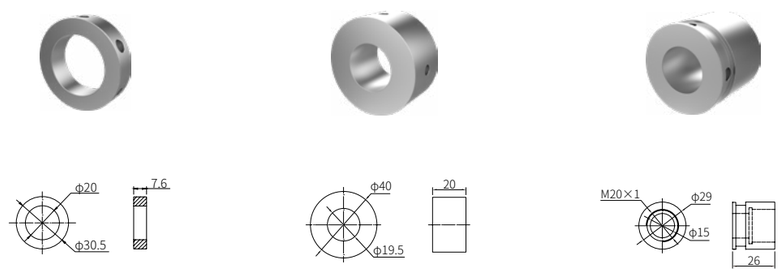


Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Aluminum Alloy	Brass
Order Code	**12-1046**	**12-1052**	**12-1039**

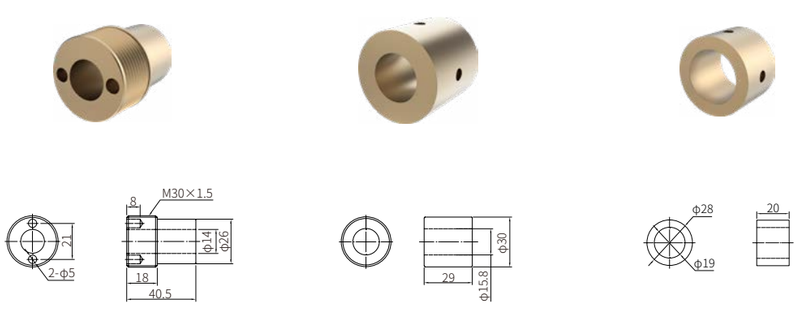
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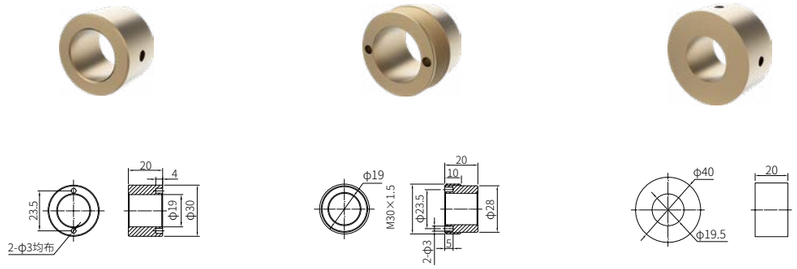
Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Stainless Steel	Aluminum Alloy	Stainless Steel
Order Code	**12-1078**	**12-1064**	**12-1113**



Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Aluminum Alloy	Stainless Steel	Stainless Steel
Order Code	**12-1158**	**12-1077**	**12-1106**



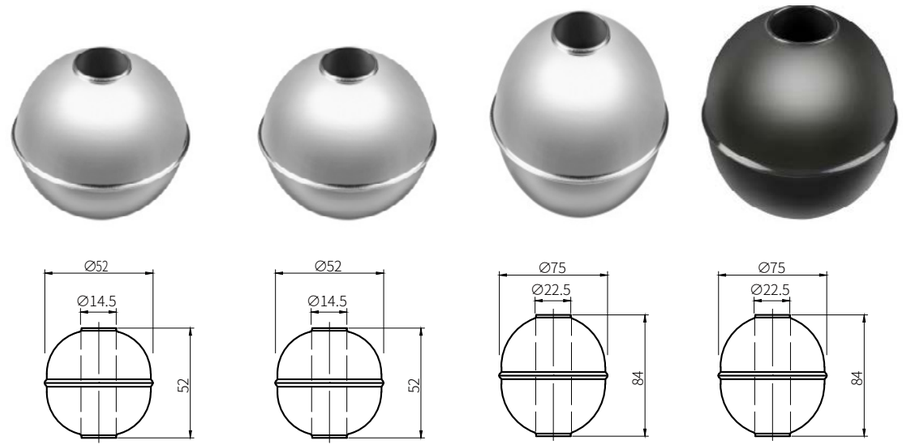
Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Brass	Brass	Brass
Order Code	**12-1038**	**12-1093**	**12-1102**



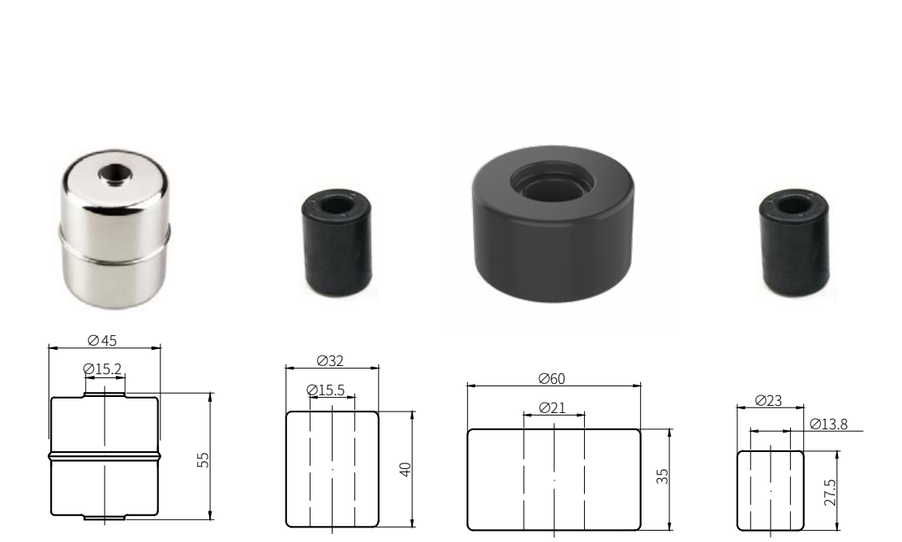
Name	Ring Magnet	Ring Magnet	Ring Magnet
Material	Copper Alloy H62	Copper Alloy H62	Copper Alloy H62
Order Code	**12-1083**	**12-1079**	**12-1081**

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Float



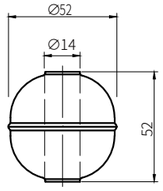
Name	Float	Float	Float	Float
Density	0.92g/cm³	0.66g/cm³	0.92g/cm³	0.66g/cm³
Material	316L	316L	316L	316LPTFE-coated Surface
Applicable Medium	Water	Oil	Water	Oil
Operating Temperature	-40~105°C			
Order Code	**11-1050**	**11-1051**	**11-1048**	**11-1049**

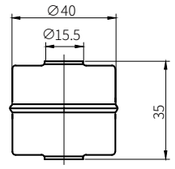


Name	Float	Float	Float	Float
Density	0.53g/cm³	0.44g/cm³	0.5g/cm³	0.71g/cm³
Material	316L	NBR	NBR	NBR
Applicable Medium	Oil	/	/	/
Operating Temperature	-40~105°C			
Order Code	**11-1052**	**11-1053**	**11-1054**	**11-1056**









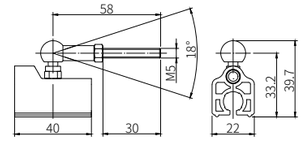
Name	Float	Float
Density	0.7g/cm³	0.53g/cm³
Material	Pure titanium	316L
Applicable Medium	Corrosive Medium	Oil
Operating Temperature	-40~250°C	-40~105°C
Order Code	**11-1061**	**11-1055**

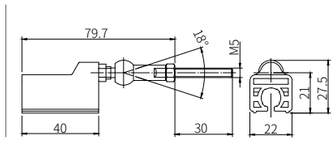
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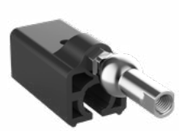
Slider Magnet，Floating Magnet

“*” Standard Slider Blocks and Other Accessories



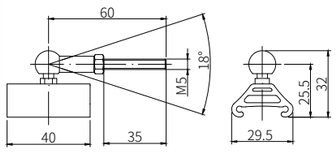


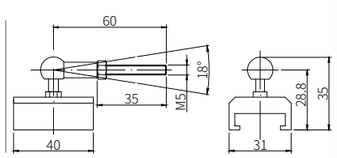




Name	S-type Slider Magnet	V-type Slider Magnet
Operating Temperature	-40~105°C	
Compatible Product	T3P	
Order Code	**12-1114***	**12-1115***



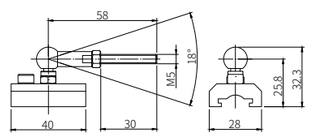


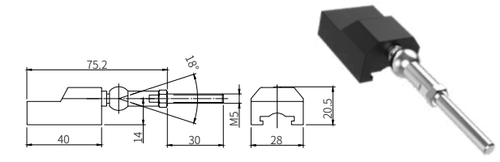




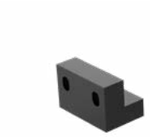
Name	S-type Slider Magnet	S-type Slider Magnet
Operating Temperature	-40~105°C	
Compatible Product	GP2、GL2 Series	ZF Series
Order Code	**12-1116***	**12-1090***

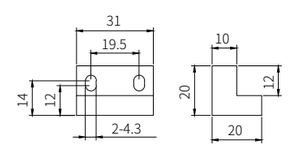


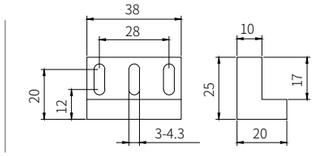




Name	S-type Slider Magnet	V-type Slider Magnet
Operating Temperature	-40~105°C	
Compatible Product	TP	
Order Code	**12-1004***	**12-1005***



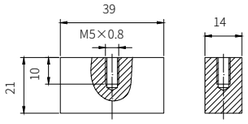


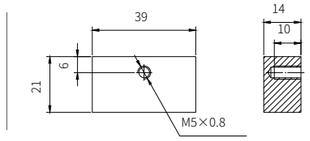




Name	Floating Magnet 31x20	Floating Magnet 38x25
Operating Temperature	-40~105°C	
Order Code	**12-1010***	**12-1009**



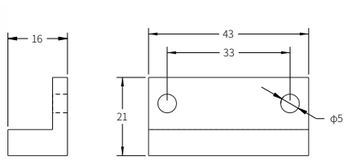


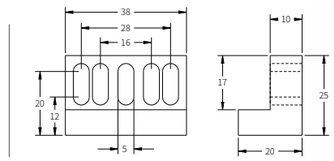




Name	Floating Magnet 39×21×14（Top Thread）	Floating Magnet 39×21×14（Side Thread）
Order Code	**12-1012**	**12-1011**



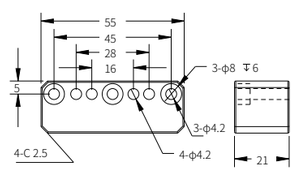


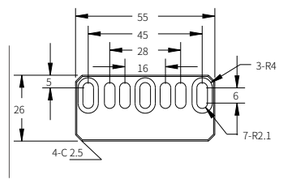


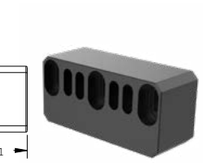


Name	Floating Magnet 43x16x21	Floating Magnet 38x25
Operating Temperature	-40~105°C	
Order Code	**12-1013**	**12-1080**



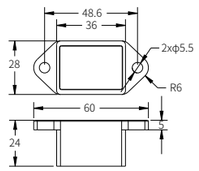






Name	Floating Magnet 52x21x20	Floating Magnet 55x21x26
Operating Temperature	-40~105°C	
Order Code	**12-1155**	**12-1152**

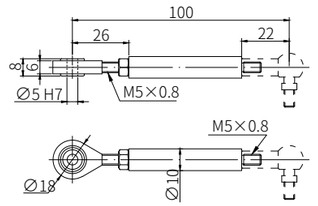




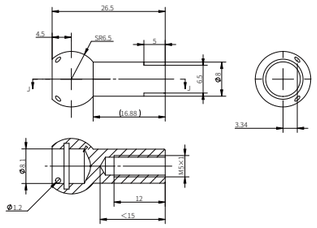
Name	Floating Magnet 60x28x24	
Order Code	**12-1129**	

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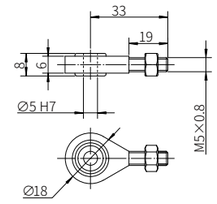


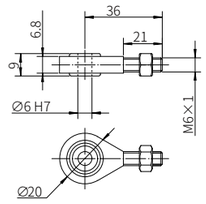




Name	Connecting Rod	Straight Ball Joint Bearing
Compatible Product	S-type Slider	V-type Slider Magnet
Order Code	**11-1005***	





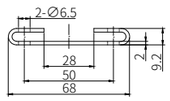


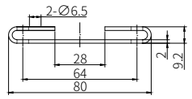
Name	M5 Rod-end Bearing	M6 Rod-end Bearing
Compatible Product	Connecting Rod	Connecting Rod
Order Code	**11-1007**	**11-1008***

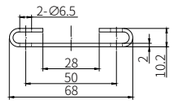
Fixing Clip

"*" Standard Slider Blocks and Other Accessories



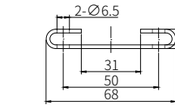


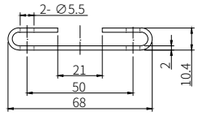


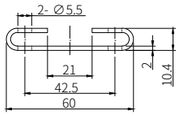


Name	Adjustable Fixing Clip	Adjustable Fixing Clip	Adjustable Fixing Clip
Compatible Product	T3P、EP2		GP2、GL2
Order Code	**11-1003***	**11-1004**	**11-1060***



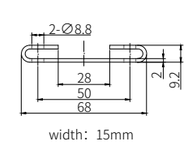




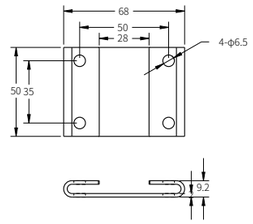


Name	Adjustable Fixing Clip	Adjustable Fixing Clip	Adjustable Fixing Clip
Compatible Product	GR	ZF	ZF
Order Code	**11-1009***	**11-1020***	**11-1021**



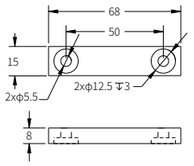


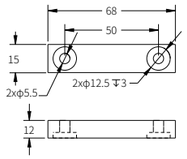




Name	Adjustable Fixing Clip+Insulation Sleeve	Splicing Fixing Clip
Compatible Product	T3P、EP2	T3P、EP2
Order Code	**11-1011**	**11-1058**







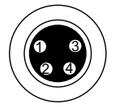
Name	Adjustable Fixing Clip Spacer	Adjustable Fixing Clip Spacer
Material	Nylon	Nylon
Compatible Product	50 Hole Distance Adjustable Clip	50 Hole Distance Adjustable Clip
Order Code	**11-1012**	**11-1013**

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Connector

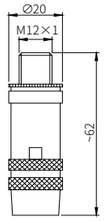
M8 Aerial insertion type selection

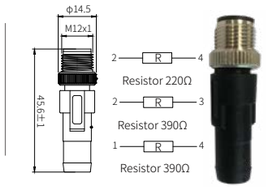


Name	4-pin M8 Aviation Socket (Female)
Terminal Diagram	
Compatible	Profibus-DP（Power Source） Profinet（Power Source） EtherCAT（Power Source）
Housing Material	Nickel-Plated Zinc
Compatible Cable Diameter	3.5~5mm
Terminal	Soldering
Order Code	**18-1001（Female）**

M12 Aerial insertion type selection



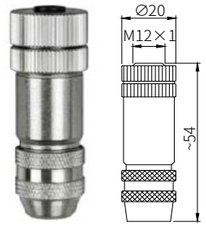




Name	4-pin M12 Aviation Plug (Male)	4-pin M12 Aviation Plug (Male) (D buckle)	5-pin M12 Aviation Plug (Male)	5-pin M12 Aviation Plug (Male) (B buckle)	5-pin M12 Aviation Plug (Male) （B buckle) with Terminal Resistor
Terminal Diagram					
Compatible	Analog	Profinet EtherCAT	Analog CANopen	Profibus-DP	Profibus-DP 2/4Pin Connected to220Ω Resistor 2/3Pin Connected to390Ω Resistor 1/4Pin Connected to390Ω Resistor
Housing Material	Nickel-Plated Zinc				PVC Coated
Compatible Cable Diameter	6~8mm				/
Terminal	Threaded Connection				/
Order Code	**18-1002（Male）**	**18-1011（Male）**	**18-2011（Male）**	**18-2002（Male）**	**18-2015(Male)**

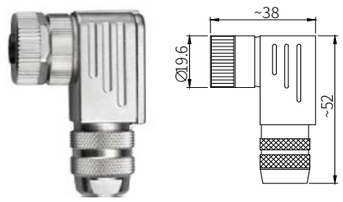






Name	5-pin M12 Aviation Socket (Female) (B buckle)	5-pin M12 Aviation Socket (Female)	5-pin M12 Aviation Socket (Female)	8-pin M12 Aviation Socket (Female)
Terminal Diagram				
Compatible	Profibus-DP	Analog CANopen	Analog CANopen	Analog SSI Start/Stop
Housing Material	Nickel-Plated Zinc			
Compatible Cable Diameter	6~8mm	6~8mm	8~10mm	
Terminal	Threaded Connection			
Order Code	**18-2001（Female）**	**18-2008（Female）**	**18-2007（Female）**	**18-5004（Female）**

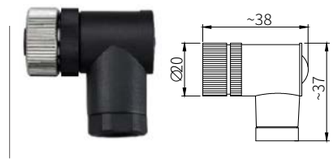




Name	4-pin M12 Aviation Plug (Male) (D buckle)	5-pin M12 Aviation Plug (Male) (B buckle)	5-pin M12 Aviation Socket (Female)	5-pin M12 Aviation Socket (Female)（B buckle）	8-pin M12 Aviation Socket (Female)
Terminal Diagram					
Compatible	Profinet EtherCAT	Profibus-DP	Analog CANopen	Profibus-DP	Analog SSI Start/Stop
Housing Material	Nickel-Plated Zinc				
Compatible Cable Diameter	6~8mm				
Terminal	Threaded Connection				
Order Code	**18-1012（Male）**	**18-2004（Male）**	**18-2010（Female）**	**18-2003（Female）**	**18-5005（Female）**

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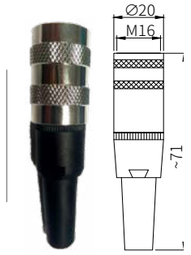
Name	4-pin M12 Aviation Socket (Female)	5-pin M12 Aviation Socket (Female)	8-pin M12 Aviation Socket (Female)	5-pin M12 Aviation Socket (Female)
Terminal Diagram				
Compatible	Analog	Analog CANopen	Analog SSI Start/Stop	Analog CANopen
Housing Material	Polyamide			
Compatible Cable Diameter	6~8mm			
Terminal	Threaded Connection			
Order Code	**18-1004（Female）**	**18-2005（Female）**	**18-5001（Female）**	**18-2006（Female）**

M16 Aerial insertion type selection

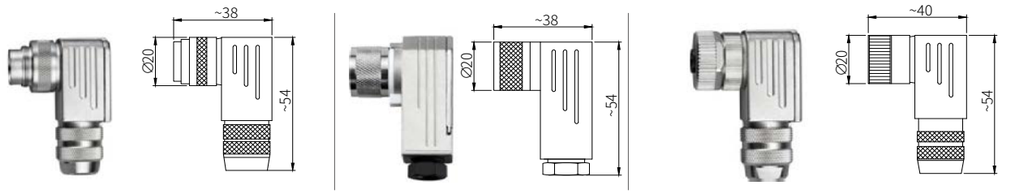


Name	6-pin M16 Aviation Plug (Male)	7-pin M16 Aviation Plug (Male)
Terminal Diagram		
Compatible	Analog Start/Stop CANopen Profibus-DP Profinet EtherCAT	SSI Start/Stop
Housing Material	Nickel-Plated Zinc	
Compatible Cable Diameter	6~8mm	
Terminal	Soldering	
Order Code	**18-3002（Male）**	**18-4003（Male）**





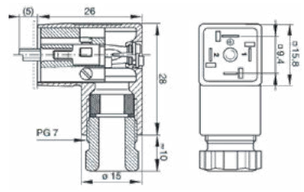
Name	6-pin M16 Aviation Socket (Female)	7-pin M16 Aviation Socket (Female)	6-pin M16 Aviation Socket (Female)	7-pin M16 Aviation Socket (Female)	8-pin M16 Aviation Socket (Female)
Terminal Diagram					
Compatible	Analog Start/Stop Profibus-DP	SSI Start/Stop	CANopen Profinet EtherCAT	SSI、Start-Stop	Analog SSI Start/Stop
Housing Material	Nickel-Plated Zinc				
Compatible Cable Diameter	4~6mm	6~8mm	8~10mm	4~6mm	6~8mm
Terminal	Soldering				
Order Code	**18-3001（Female）**	**18-4005（Female）**	**18-3007（Female）**	**18-4001（Female）**	**18-5002（Female）**



Name	6-pin M16 Aviation Plug (Male)	6-pin M16 Aviation Plug (Female)	7-pin M16 Aviation Plug (Female)	8-pin M16 Aviation Plug (Female)
Terminal Diagram				
Compatible	Analog Start/Stop CANopen Profibus-DP Profinet EtherCAT	Analog Start/Stop CANopen Profibus-DP Profinet EtherCAT	SSI Start/Stop	Analog SSI Start/Stop
Housing Material	Nickel-Plated Zinc			
Compatible Cable Diameter	6~8mm			
Terminal	Soldering			
Order Code	**18-3004（Male）**	**18-3003（Female）**	**18-4002（Female）**	**18-5003（Female）**

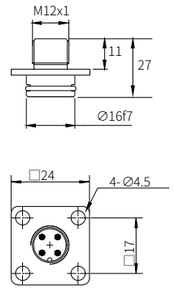
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TECHNOLOGY CO.,LTD

Hessman Connector

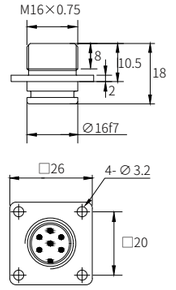
Name	Hessman Connector Female
Drawing	
Compatible	ZF
Housing Material	Polyamide
Compatible Cable Diameter	6~8mm
Terminal	Threaded Connection
Order Code	**18-1006**

Board-end Aviation Connector









Name	4-pin M12 Board-end Aviation Plug (Male)		5-pin M12 Board-end Aviation Plug (Male)	6-pin M16 Board-end Aviation Plug (Male)
Terminal Diagram				
Compatible	Analog（Integrated Built-in Type）	Mining Product Analog Output	CANopen（Integrated Built-in Type）	Start/Stop
Housing Material	Nickel-Plated Zinc			
Compatible Cable Diameter	0.25~0.5mm²			
Terminal	Core Wire	Wire core with mine	Core Wire	Soldering
Order Code	**18-1003（Male）**	**18-1004（Male）**	**18-2009（Male）**	**18-3006（Male）**

Cable、Integrated Cable

Shielded Cable Selection







Name	Standard Cable Independent Twisted Pair	Standard Cable	Standard Cable Independent Twisted Pair	High-temperature Cable Independent Twisted Pair	Standard Cable
Pin	6-pin 3x2	6-pin	4-pin 2x2	6-pin 3x2	8-pin
Wire marking	0.25mm²	0.25mm²	0.25mm²	0.25mm²	0.3mm²
Outside diameter	Φ7.1	Φ6.8	Φ6.8	Φ6.2	Φ7.1
Cable color	Orange	Orange	Gray	Black	Black
Coat material	PUR	PUR	PUR	Teflon	PVC
Operating temperature	-40~90°C	-40~90°C	-40~90°C	-30~200°C	-30~80°C
Shielding layer	Tinned Copper Wire Mesh				Aluminum Alloy Braided Shield
Core color	Brown、White、Yellow、Green、Gray、Pink	Brown、White、Yellow、Green、Gray、Pink	Brown、White、Yellow、Green	Brown、White、Yellow、Green、Gray、Pink	Brown、White、Yellow、Green、Gray、Red、Blue、Black
Compatible interface	Analog SSI Start/Stop CANopen Profibus-DP	Analog Start/Stop Profibus-DP	Analog CANopen	Analog SSI Start/Stop CANopen Profibus-DP	Analog
Order Code	**16-1012**	**16-1002**	**16-1001**	**16-1010**	**16-1044**







Name	Standard Cable	Standard Cable	Standard Cable Independent Twisted Pair	Standard Cable Independent Twisted Pair	Marine cable
Pin	3-pin	5-pin	4-pin 2x2	6-pin 3x2	6-pin
Wire marking	0.25mm²	0.25mm²	0.25mm²	0.25mm²	3x2x0.5mm²
Outside diameter	Φ4.6	Φ5.8	Φ6.8	Φ7.6	Φ10
Color	Black	Orange	Green	Green	Black
Coat material	PUR	PUR	PUR	PUR	PO/PVC
Operating temperature	-40~80°C	-40~90°C	-40~90°C	-40~90°C	-20~90°C
Shielding layer	none	Tinned Copper Wire Mesh			-
Core color	Brown、Blue、Black	Brown、White、Yellow、Green、Gray	Yellow、White、Orange、Blue	Brown、White、Yellow、Green、Gray、Pink	Red1、White1、Red2、White2、Red3、White3
Compatible interface	Profibus-DP Profinet EtherCAT	Analog	Profinet EtherCAT EtherNET/IP Profibus-DP	Profinet EtherCAT EtherNET/IP (Single outlet)	Analog SSI
Order Code	**16-1046**	**16-1003**	**16-1042**	**16-1031**	**16-1041**

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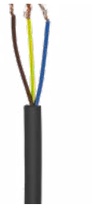






Name	Cable (coal safety cable)	Cable (coal safety cable)	Cable (coal safety cable)	Cable (coal safety cable)	Cable (coal safety cable)
Pin	4-pin	4-pin	4-pin	6-pin	8-pin
Wire marking	0.37mm²	0.37mm²	0.37mm²	0.43mm²	0.15mm²
Outside diameter	Φ8	Φ8	Φ8	Φ10	Φ8
Color	Black	Blue	Blue	Blue	Black
Coat material	PVC	PVC	PVC	PVC	PVC
Operating temperature	-40~90°C	-40~90°C	-40~90°C	-40~90°C	-40~90°C
Shielding layer	Tinned Copper Wire Mesh				
Core color	Red、White、Green、Blue	Red、White、Green、Blue	Brown、Black、Blue、Gray	Brown、Blue、Black、Red、White、Green	Red、White、Yellow、Green、Blue、Brown、Black、Purple
Compatible interface	Analog CANopen	Analog CANopen	Analog CANopen	Analog CANopen	SSI
Order Code	**16-1025**	**16-1030**	**16-1083**	**16-1073**	**16-1076**




Name	Standard Cable Independent Twisted Pair	Standard Cable	Standard Cable	Standard Cable	8-pin Shielded Cable
Pin	4-pin 2x2	5-pin	4-pin	3-pin	8-pin 4x2
Wire Marking	0.25mm²	0.25mm²	0.25mm²	0.5mm²	0.25mm²
Outside Diameter	Φ6.8	Φ6.8	Φ5	Φ5.6	Φ7.1
Color	Gray	Gray	Orange	Black	Black
Coat materia	PUR	PUR	PUR	PUR	PUR
Operating temperature	-40~90°C	-40~90°C	-40~90°C	-40~90°C	-40~90°C
Shielding Layer	Tinned Copper Wire Mesh				
Core color	Brown、White、Yellow、Green	Brown、White、Yellow、Green、Gray	Brown、White、Yellow、Green	Brown、Blue、Olivine	Red、White、Yellow、Green、Black、Gray、Blue、Brown
Compatible	CANopen	Analog	Analog	AMP connector	IO-Link+Analog
Order Code	**16-1063**	**16-1064**	**16-1066**	**16-1067**	**16-1051**

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Standard Integrated Cable

Integrated Cable-Female



Plug	5-pin M12,Female	5-pin M12，Angled Female Connector	5-pin M12,Female	5-pin M12，Angled Female Connector
Name	Integrated Cable	Integrated Cable	Integrated Cable	Integrated Cable
Cable	5x0.25mm² Shielded cable	5x0.25mm² Shielded cable	5x0.25mm² Shielded cable	5x0.25mm² Shielded cable
Color/Diameter	Orange/ ∅ 6	Orange/ ∅ 6	Orange/ ∅ 6	Orange/ ∅ 6
Compatible	Analog Profinet（power source） EtherCAT（power source）	Analog	CANopen	CANopen
Temperature tolerance range	-40~90℃	-40~90℃	-40~90℃	-40~90℃
Terminal Diagram	1-Brown 2-Green 3-White 4-Gray 5-Yellow	1-Brown 2-Green 3-White 4-Gray 5-Yellow	1-Gray 2-Brown 3-White 4-Yellow 5-Green	1-Gray 2-Brown 3-White 4-Yellow 5-Green
Line supervisor	5~30M（optional）	5/10/15/20/30M	5~30M（optional）	5/10/15/20/30M
Order Code	**16-1035**	**16-1040**	**16-1048**	**16-1049**



Plug	5-pin M12,Female	5-pin M12,Female	5-pin M12，Angled Female Connector		5-pin M12，Female Connector
Name	Integrated Cable	Integrated Cable	Integrated Cable		Integrated Cable
Cable	5x0.25mm² Shielded cable	5x0.25mm² Shielded cable	2x2x0.25mm² Twisted shielded cable		5x0.25mm² Twisted shielded cable
Color/Diameter	Orange/ ∅ 6	Orange/ ∅ 6	Gray/ ∅ 6		Gray/ ∅ 6
Compatible	Analog（MH/ES）	Analog（MH/ES）	CANopen		Analog（MH/ES）
Temperature tolerance range	-40~90℃	-40~90℃	-40~90℃		-40~90℃
Terminal Diagram	1-Brown 2-Yellow 3-White 4-Green	1-Brown 2-Yellow 3-White 4-Green	2-Brown 3-White 4-Yellow 5-Green		1-Brown 2-Yellow 3-White 4-Green
Line supervisor	10M	15M	1M	2M	10M
Order Code	**16-1011**	**16-1013**	**16-1022**	**16-1023**	**16-1055**

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Integrated Cable-Male



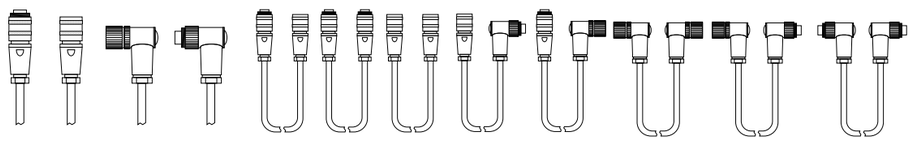
Plug	4-pin M12 Male	4-pin M12，Male (D buckle)	5-pin M12 Male	4-pin M12 Male
Name	Integrated Cable	Integrated Cable	Integrated Cable	Integrated Cable（MA）
Cable	3x0.25mm² Shielded cable	2x2x0.25mm² Twisted shielded cable	0.25mm² Shielded cable	4x0.37mm² Shielded cable
Color/Diameter	Black/ ∅ 4.6	Green/Φ6.8	Orange/ ∅ 6	Black/ ∅ 8
Compatible	GUC1800	Profinet EtherCAT	CANopen	GUC Series
Temperature tolerance range	-40~90℃	-40~90℃	-40~90℃	-40~90℃
Terminal Diagram	1-Brown 2-Blue 3-Black	1-Yellow 2-White 3-Orange 4-Blue	1-Gray 2-Brown 3-White 4-Yellow 5-Green	1-Red 2-White 3-Green 4-Blue
Line supervisor	0.5M（optional）	5M	0.5/1.2M	0.5M
Order Code	**16-1036**	**16-1045**	**16-1043**	**16-1052**

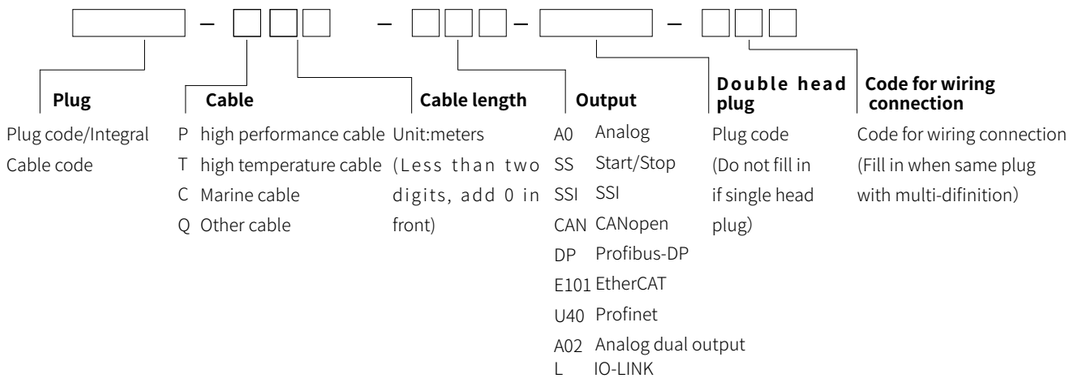
Integrated Cable-MA



Plug	4-pin M12，Female	4-pin M12，Angled Female Connector	4-pin M12,Female
Name	Integrated Cable（MA）	Integrated Cable（MA）	Integrated Cable（MA）
Cable	4x0.37² Tinned Copper Shielding Layer	4x0.37² Tinned Copper Shielding Layer	4x0.37mm² Shielded cable
Color/Diameter	Blue/ ∅ 8	Blue/ ∅ 8	Black/ ∅ 6
Compatible	GUC Series	GUC Series	GUC Series
Temperature tolerance range	-40~90℃	-40~90℃	-40~90℃
Terminal Diagram	1-Red 2-White 3-Green 4-Blue	1-Red 2-White 3-Green 4-Blue	1-Red 2-White 3-Green 4-Blue
Line supervisor	5~30M（optional）	5/10/15/20/30M	/
Order Code	**16-1029**	**16-1027**	**16-1053**

Combined cable selection code





When the product uses the same plug but with multi-wiring definitions, it is necessary to add code for wiring definitions:MH/ES Analog output、EP2 Series Start/Stop output；

EE/ES Analog output：D4G=Function 1-3-4，D4H=1-2-3，D4E=2-3-4;
EP2 Start/Stop output：D812=Function 1-2-3-5-6-7，D812M=1-2-3-4-7-8；
DH SSI output：D812=Function 1-2-4-3-7-8，D812M=1-2-3-4-7-8；

Model selection

Model: 18-3001-P05-A0

Explanation: 6 pin M16 female connector，5m high performance cable, Analog output.

Model: 18-1004-P05-A0-D4G

Explanation: 4 pin M12 female connector，5m high performance cable、Analog output, function:1-3-4.



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