

## Dear Valued Customer

First of all, Tang Minh Phat Trading and Service Co., Ltd (TMP Vietnam) would like to send our great appreciation to you, who worked, are working and will be working with us.

Wish you all a happy, healthy and prosperous.

From the April of 2018, TMP became an official distributor of Elco Holding brand in Vietnam market.

Elco Holding is Germany brand, specialize in supplying automatic equipment : inductive sensors, Capacitive sensors, Photoelectric sensors, Encoders, Connectors...

We would like to sending you some line of products as following:

# Absolut Multi-turn Encoder






## EAM Seires

					
Type	<b>EAM58 - Series</b>	<b>EAM58 - Series</b>	<b>EAM58 - PN Series</b>	<b>EAM90L - EU Series</b>	<b>EAM90L - EU Series</b>
Shaft diameter (mm)	6-10	6-10	6 - 10	12 - 28	12- 28
Output Circuit	0-10 VDC/0 20 mA	Device Net	Profi Net IO/RT	RS422	Profibus-DP
Resolution max	65536 ppr (16 Bit)	8192 ppr (13 bit)	8192 ppr (13 Bit)	16384 ppr (14 Bit)	16384 ppr (14 Bit)
Revolution max		4096 (12 bit)	4096 (12 Bit)		4096 (12 Bit)
Operation temperature	-40 °C ... +80°C	-40 °C ... +80 °C	-40 °C ... +80 °C	-20 °C ... +80 °C	-20 °C ... +80 °C
Protection class	IP 65	Ip65	Ip65	Ip65	Ip65
Connection type	1.5m Cable	3 x PG7 cable glands 3 x M12 connector	3 x M12 connector	1.5 m cable	3 x PG7 cable glands 3 x M12 connector

# Absolut Single-turn Encoder



## EAC Seires

					
Type	<b>EAC58 - EU Series</b>	<b>EAC58 - EA Series</b>	<b>EAC58 - DP Series</b>	<b>EAC58 - DP Series</b>	<b>EAC50 - Series</b>
Shaft diameter (mm)	6 - 10	6 - 10	8 - 12	6 - 10	6 - 8
Output Circuit	RS422, Push-Pull / PNP	0 - 10 VDC / 0 - 20 mA	RS422, Push-Pull or NPN	Profibus-DP	NPN /PNP
Resolution max	8192 ppr (13 Bit)	8192 ppr (13 Bit)	8192 ppr (13 Bit)	8192 ppr (13 Bit)	1024 ppr (10 Bit)
Operation temperature	-20 °C ... +80°C	-20 °C ... +80 °C	-20 °C ... +80 °C	-40 °C ... +80 °C	-20 °C ... +80 °C
Protection class	IP 65	Ip65	Ip65	Ip65	IP 65
Connection type	1.5m Cable	1.5m Cable	1.5m Cable	3xPG7 cable glands 3xM12 connector	1.5m Cable

# Incremental encoder






## EV Seires

					
<b>Type</b>	<b>Ev28 Series</b>	<b>EV40A Series</b>	<b>EV50A Series</b>	<b>EV58A Series</b>	<b>EV150P Series</b>
<b>Shaft diameter (mm)</b>	Ø4g6 / Ø5g6	Ø6g6	6 - 12	6 - 10	60 - 80
<b>Output Circuit</b>	RS422 or Push-Pull	RS422 or Push-Pull	RS422 or Push-Pull	RS422 or Push-Pull	RS422 or Push-Pull
<b>Resolution max</b>	600 ppr	5000 ppr	5000 ppr	5000 ppr	2048 ppr
<b>Operation temperature</b>	-20°C ... +80°C	-20 °C ... +85 °C	-40 °C ... +85 °C	-20 °C ... +90 °C	-20 °C ... +90°C
<b>Connection type</b>	0.5m Cable	0.5m Cable	0.5m Cable	Stammleitung 1.5m	1.5m Cable
<b>Protection class</b>	IP 50	IP 65	IP65( Without oil seal) IP67(with oil seal)	IP65	Ip65

## Photoelectri Sensors



## O Seires

					
<b>Type</b>	<b>OSQ18 Series</b>	<b>Og18 Series</b>	<b>Op18 Series</b>	<b>Om18 Series</b>	<b>Os50 Series</b>
<b>Housing (mm)</b>	46 x 14 x 31	M18 plastic PC + ABS	M18 plastic Pa12	M18 brass nickel-plated	15 x 18 x 50
<b>Sensing distance through-beam(m)</b>	<30	<30	<10	<10	< 20 m / < 40 m
<b>Sensing distance retro-reflective (m)</b>	<4	<4	<3	< 3	<6 - 10
<b>Sensing distance diffuse reflective (mm)</b>	<200-600	<200-600	<100-600	< 100 - 600	< 1000-2000
<b>Input</b>	NPN /PNP	NPN /PNP	NPN /PNP	NPN /PNP	NPN/PNP
<b>Output</b>	NO + NC	NO + NC	NO / NC	NO + NC	NO + NC
<b>Supply power</b>	10-30 VDC	10-30 VDC	10-30VDC	10-30VDC	10-30VDC
<b>Protection class</b>	Ip67	Ip67	IP 67	IP 67	Ip65
<b>Connection type</b>	M12 Connector/2m Cable	M12 Connector /2m Cable	M12 Connector/2m Cable	M12 Connector/2m Cable	M12 connector or 2 m cable

# Inductive sensors






## M Series

					
Type	<b>M12 high Pressure</b>	<b>M18 G Series</b>	<b>M30 G Series</b>	<b>M30 Short</b>	<b>M30 All Metal</b>
Housing (mm)	M12 stainless steel	M18 brass nickel-plated	M30 brass nickel-plated	M30 brass nickel-plated	M30 stainless steel
Sensing distance (mm)	1.5	8 -16	15 - 30	10 / 15	10 / 15
Input	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP
Output	NO,NC	NO,NC	NO,NC	NO,NC / NO+NC	NO,NC
Supply power	10-30VDC	10-30VDC / 20-250VAC	10-30VDC/ 20-250VAC	10-30VDC/20-250VAC	10-30VDC/ 20-250VAC
Protection class	Ip68	Ip68	Ip68	Ip67	Ip67
Connection type	M12 connector / 2m cable	M12 connector/2m cable	M12 connector/2m cable	M12 connector/2m cable	M12 connector/2m cable

# Inductive sensors



## M Series

					
Type	<b>M14 high Pressure</b>	<b>M30 PTFE</b>	<b>M12 All Metal</b>	<b>M8 Short</b>	<b>M4 Standard</b>
Housing (mm)	M14 stainless steel	M30 brass PTFE-coated	M12 stainless steel	M8 brass nickel-plated	M4 Stainless steel
Sensing distance (mm)	2	10	2 / 4	2	0.8
Input	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP
Output	NO,NC	NO,NC	NO,NC	NO/NC	NO/NC
Supply power	10-30VDC	10-30VDC	10-30VDC/ 20-250VAC	10-30VDC	10-30VDC
Protection class	Ip68	Ip67	Ip67	Ip67	Ip67
Connection type	M12 connector	M12 connector/2m cable	M12 connector / 2m cable	2m cable	2m cable

# Inductive sensors

## W - M Seires



Type	W40 Standard	WI40 Low temp	M8 All Metal	M12 Low Temp	H3 Standard
Housing (mm)	40 x 40 x 40	40 x 118 x 40	M8 stainless steel	M18 brass nickel-plated	Ø3
Sensing distance (mm)	20 - 40	15 / 40	2 / 4	5 / 8	0,8
Input	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP	NPN /PNP
Output	NO,NC / NO+ NC	NO,NC / NO+NC	NO/NC	NO,NC	NO / NC
Supply power	10-30VDC	10-30 VDC/ 20-250 VAC	10-30VDC	10-30 VDC/ 20-250VAC	10-30VDC
Protection class	IP67	Ip67	Ip67	Ip67	IP 67
Connection type	M12 connector	Cable glands	2m cable	M12 connector / 2m cable	2m Cable

# Inductive sensors








## Q Seires



Type	Q40Standard	Q18 Series	Q7 Series	Q34 Series	Q08 Standard
Housing (mm)	40 x 80 x 80	18 x 35 x 18	30 x 50 x 7	50 x 20 x 10	7,4 x 23 x 8/9,1 x 25 x 8
Sensing distance (mm)	40 / 70	5 / 8	8	10	4
Input	NPN/PNP	NPN/PNP	NPN /PNP	NPN /PNP	NPN/PNP
Output	NO,NC / NO+NC	NO,NC	NO / NC	NO / NC	NO,NC
Supply power	10-30 VDC / 20-250VAC	10-30 VDC/ 20-250VAC	10-30 VDC	10-30 VDC	10-30VDC/20-250VAC
Protection class	Ip67	Ip67	Ip67	Ip67	Ip67
Connection type	M12 connector / cable glands	2m cable	2m Cable	2m Cable	2m cable

# Capacitive sensors






## M - Seires

					
Type	M18 High Pressure	M12 Series	M18 Series	M30 Series	M12 Low Temp
Housing (mm)	M18 stainless steel	M12 brass nickel-plated	M18 brass nickel-plated	M30 brass nickel-plated	M12 brass nickel-plated
Sensing distance (mm)	3	2 / 4	5 / 8	10 / 15	2 / 4
Input output	NPN/PNP	NPN /PNP	NPN /PNP	NPN /PNP	NPN/PNP
Supply power	NO,NC	NO, NC/ NO+ NC	NO,NC/ NO+NC	NO, NC/ NO+NC	NO,NC
Protection class	10-30VDC	10-30VDC	10-30 VDC / 20 - 250 VAC	10-30VDC / 20 - 250 VAC	10-30VDC/20-250VAC
Connection type	IP68	IP 67	IP 67	Ip67	Ip67
	M12 connector/2m cable	M12 connector /2m Cable	M12 connector /2m Cable	M12 connector /2m Cable	M12 connector/2m cable

## Passive Distribution Boxes M8 (ESP) - Product overview



## M (8-12) Seires

					
Type	M8 Distribution Box (4-6-8) Way(M12 outlet)	M8 Distribution Box (4-6-8) Way(with pre-wired cable)	M12 Distribution Box (4-6-8) way(M12 outlet)	M12 Distribution Box (4-6-8) way(with pre-wired cable)	M12 Distribution Box (4-6-8) way(M23 outlet)
Output	PNP/NPN	PNP/NPN	PNP/NPN	PNP/NPN	PNP/NPN
Protection Class	Ip67	Ip67	Ip67	Ip67	Ip67
Supply power	10- 30 VDC	10- 30 VDC	10- 30 VDC	10- 30 VDC	10- 30 VDC
Plug in	8xM8	8xM8	8xM12	8xM12	8xM12



# M8 I/O Connectors - Product overview






## M - 8 Seires

					
Type	M8 male - 2 M8 female straight molded	M8 Female straight field attachable	M8 male - 2 M12 female molded	M8 Female angled field attachable	M8 male straight M8 female straight molded
Connection	3 pin/ 4 pin	3 pin/ 4 pin	3 pin / 4 pin	3 pinn/ 4 pin	3 pin / 4 pin
Protection Class	Ip67	Ip67	Ip67	Ip67	Ip67
Diameter of wires(mm²)	0.25	<0.5	0.25	<0.25	0.25

# M12 I/O Connectors - Product overview



## M - 12 Seires

					
Type	M12 male angled M12 female straight molded	M12 male 2 open end molded	M12 male - 2 M8 female angled molded	M12 male straight field attachable	M12 male - 2 M8 / M12 female molded
Connection	3 / 4 / 5 / 8 / 12 pin	3 pin / 4 pin / 5pin	3 pin / 4 pin	4 pinb/ 5 pin / 8 pin	3 pin / 4 pin / 5 pin
Protection Class	Ip67	Ip67	Ip67	Ip67	IP67
Diameter of wires(mm²)	0.25 – 0.34	0.34	0.25	<0.75	

## TANG MINH PHAT TRADING AND SERVICE CO., LTD

**Address (for Delivery and Contact)**

602/41E, Dien Bien Phu Street, 22 Ward, Binh Thanh District,  
Ho Chi Minh City, Vietnam

**Address ( for Invoice)**

119 Quoc Huong, Thao Dien Ward, District 2, Ho Chi Minh City,  
Vietnam

**Tel:** +84.28.35121007

**Fax:** +84.28.35121008

**Web:** [www.tmpvietnam.com](http://www.tmpvietnam.com)

**Mail:** [sales@tmpvietnam.com](mailto:sales@tmpvietnam.com)

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