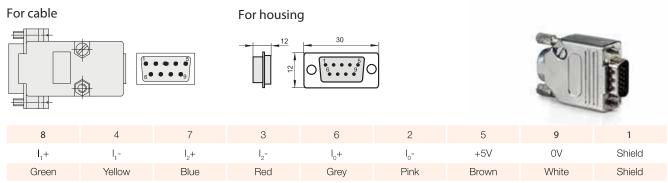
ENCODER ELECTRICAL CONNECTION

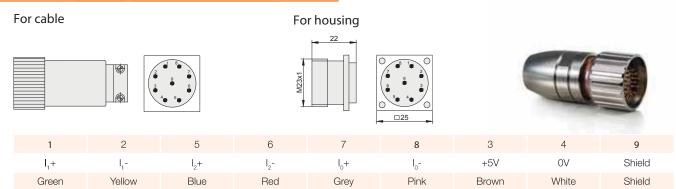
$FOR \sim 11 \mu A$

9-PINS FLAT CONNECTOR D9, MALE



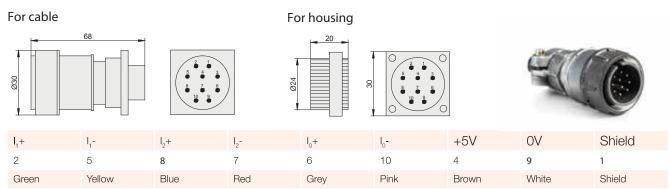
^{*} Shield is connected to the housing of connector

9-PINS ROUND CONNECTOR C9, MALE



^{*} Shield is connected to the housing of connector

10-PINS ROUND CONNECTOR ONC, MALE



^{*} Shield is connected to the housing of connector





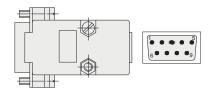
ENCODER ELECTRICAL CONNECTION

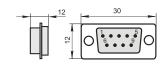
FOR ~ 1Vpp; TTL; HTL

9-PINS FLAT CONNECTOR D9, MALE

For cable

For housing







Pin number	8	4	7	3	6	2	5	9	1
Color	Pink	Grey	White	Brown	Yellow	Green	Red	Blue	Shield
AV (~ 1V)	A+	A-	B+	B-	R+	R-	+5V	OV	Shield
TTL U = +5V	U1	Ū1	U2	Ū2	U0	Ū0	+5V	OV	Shield
HTL U = +(1030)V	U1	Ū1	U2	Ū2	U0	Ū0	+(1030)V	OV	-

^{*} Shield is connected to the housing of connector

12-PINS ROUND CONNECTOR C12, MALE

For cable

For housing







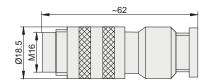




Pin number	5	6	8	1	3	4	12	10	2	11
Color	Pink	Grey	White	Brown	Yellow	Green	Red	Blue	Black	Violet
AV (~ 1V)	A+	A-	B+	B-	R+	R-	+5V	OV	Sensor +5V	Sensor 0V
TTL U = +5V	U1	Ū1	U2	Ū2	U0	Ū0	+5V	OV	Sensor +5V	Sensor 0V
HTL U = +(1030)V	U1	Ū1	U2	Ū2	U0	Ū0	+(1030)V	OV	Sensor +(1030)V	Sensor 0V

^{*} Shield is connected to the housing of connector

12-PINS ROUND CONNECTOR B12, MALE







Pin number	С	D	Е	L	G	Н	K	В	А
Color	Pink	Grey	White	Brown	Yellow	Green	Red	Blue	shield
AV (~ 1V)	A+	A-	B+	B-	R+	R-	+5V	OV	shield
TTL U = +5V	U1	Ū1	U2	Ū2	UO	Ū0	+5V	OV	shield
HTL U = +(1030)V	U1	Ū1	U2	Ū2	UO	Ū0	+(1030)V	OV	shield

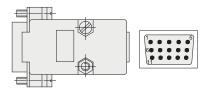
^{*} Shield is connected to the housing of connector

ENCODER ELECTRICAL CONNECTION

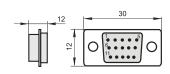
FOR ~ 1Vpp; TTL; HTL

15-PINS FLAT CONNECTOR D15, MALE

For cable



For housing



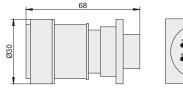


Pin number	3	13	4	14	5	15	1	2	6
Color	Pink	Grey	White	Brown	Yellow	Green	Red	Blue	Shield
TTL U = +5V	U1	Ū1	U2	Ū2	UO	ŪO	+5V	OV	Shield

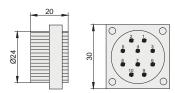
^{*} Shield is connected to the housing of connector

10-PINS ROUND CONNECTOR ONC, MALE

For cable



For housing





П	_	+5V±5%
\cup	_	TUVIU/0

Pin number	1	2	3	4	10	9	5	6	7
Color	Pink	Grey	White	Brown	Yellow	Green	Red	Blue	Shield
TTL U = +5V	U1	Ū1	U2	Ū2	UO	ŪO	+5V	OV	Shield

^{*} Shield is connected to the housing of connector

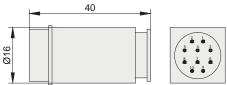
U = +5 and +15V (rotary encoders A58B for replacement of BE178 only)

Pin number	1	2	3	4	10	9	8	5	6	7
TTL	U1	Ū1	U2	Ū2	UO	Ū0	+5V	+15V	OV	Shield

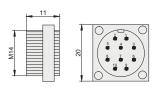
^{*} Shield is connected to the housing of connector

10-PINS ROUND CONNECTOR RS10, MALE

For cable



For housing





Pin number	5	8	3	6	10	1	2	9	4
Color	Pink	Grey	White	Brown	Yellow	Green	Red	Blue	Shield*
TTL U = +5V	U1	Ū1	U2	Ū2	U0	Ū0	+5V	OV	Shield

^{*} Shield is connected to the housing of connector