

Type code	Z1-AA04-02K	Z1-EA02-128	Z1-FA01-128	Z1-FB01-128	Z1-EC02-128	Z1-B011-128									
Features	D-2N Compatible on installation ID tag	Ceramic ID tag	Flexible ID tag	Flexible ID tag	Ceramic ID tag	Long distance ID tag									
															
Size	30,30,6mm	φ 9.5 x 2.7 mm	φ 9.5 x 0.9 mm	φ 28 x 0.8 mm	φ 26 x 3.4 mm (hole φ 6)	φ 50 x 8.3 mm									
Mounting on steel	Yes	Yes	No	No	Yes	Yes									
Material	PBT	Zirconia ceramic	Glass fiber cloth	Glass resin cloth	Almina ceramic	PA6									
IC chip	MB 89 R 118	I-CODE SLI , I-CODE SLIX													
Available memory capacity	2K byte/FRAM	112byte (EEPROM)													
Operating temperature	-25...+70℃	-20...+80℃				-20...+85℃									
Storage temperature	-40...+85℃	-25...+120℃ 1)													
protective construction	IP67	IP60 2)	IP67	IP67	IP67	IP67									
Mounting	M3screw ³⁾ (Tightening torque 0.5Nm)	with double-stick tape on the back	with double-stick tape on the back	with double-stick tape on the back	M5 screw ³⁾ with double-stick tape on the back	M4 Screw ³⁾									
Read/Write cycles , Data retention time	Read/Write cycles : Unlimited, Data retention time : 10 years	Read cycles : Unlimited , Write cycles : 100,000 , Data retention time : 10 years													
Standard	Comply with ISO15693(Frequency 13.56MHz)														
Mouting	Metal mounting	Non metal mounting	Metal mounting	Non metal mounting	Metal mounting	Non metal mounting	Metal mounting	Non metal mounting	Metal mounting	Non metal mounting	Metal mounting	Non metal mounting	Metal mounting	Non metal mounting	
Read distance(mm)	0 ~ 12	0 ~ 16	0 ~ 5.5	0 ~ 7	-	0 ~ 18	-	0 ~ 30	0 ~ 12	0 ~ 12	0 ~ 12		0 ~ 22		
Center offset (mm)	Distance 0mm	± 7	± 9	± 4	± 4	-	± 7	-	± 14	± 8	± 8	± 17	± 9	± 19	± 11
	4mm	± 8	± 10	± 2	± 3	-	± 7	-	± 14	± 8	± 8	± 15	± 8	± 19	± 12
	8mm	± 8	± 10	-	-	-	± 8	-	± 14	± 5	± 5	± 10	± 6	± 18	± 12
	10mm	± 5	± 9	-	-	-	± 7	-	± 14	± 2	± 2	± 6	± 4	± 17	± 12
	12mm	± 0	± 9	-	-	-	± 7	-	± 14	± 0	± 0	± 0	± 0	± 16	± 12
	14mm	-	± 6	-	-	-	± 4	-	± 14	-	-	-	-	± 15	± 11
	16mm	-	± 0	-	-	-	± 4	-	± 14	-	-	-	-	± 13	± 9
	20mm	-	-	-	-	-	-	-	± 13	-	-	-	-	± 6	± 4
	22mm	-	-	-	-	-	-	-	± 13	-	-	-	-	± 0	± 0
	30mm	-	-	-	-	-	-	-	± 12	-	-	-	-	-	-

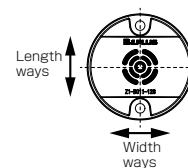
* Regarding Z1 - FB01 - 128, distance varies depending on shape, M30 or compact. The above data is of the M30 shape data.

For details, refer to the user's guide.

- Please contact us if the storage temperature would be over 120℃ .
- Please contact us if you intend to use in a location that requires Z1-EA02-128 water proof.
- M3 M4 and M5 metal screws are not available. Please prepare in your side.
- Z1-B011-128 has different offset depending on the moving direction of ID tag. When it' s installed as described below, up and down movement means vertical direction, left and right movement means lateral direction.
- Communication distance and axial deviation values are all reference values.

[Other notes]

- The order unit of ID tag is 5 pieces
- When bending the ID tag please avoid internal IC chip When bending, the communication distance becomes short.



Mounting

To avoid the surrounding metal and mutual interference when you install ID Reader, please keep area greater than or equal to value shown in below table. Also, if the non-metallic area depends on the combination of ID tag and Read/write head and ID tag, please keep non-metallic area of the greater value.

Type code	Fig.	Non-metallic area (mm)		Fig.	Mutual interference (mm)
		A	C		
Z1-EA02-128	1	30	0(20)	2	60
Z1-FA01-128	1	56	20	2	90
Z1-FB01-128	1	70	20	2	110
Z1-EC02-128	1	60	0(20)	2	70
Z1-B011-128	1	70	0(20)	2	100
Z1-AA04-02K	1	70	0(20)	2	70

"Metal mounting" means directly mounted on the metal. but it refers to the absence of metal around except rear of the ID tag.

Value in () shows the required space to keep the communication distance as same as no-metal mounting.

Non-metallic area A of ID Reader and ID tag of button type should be concentric.

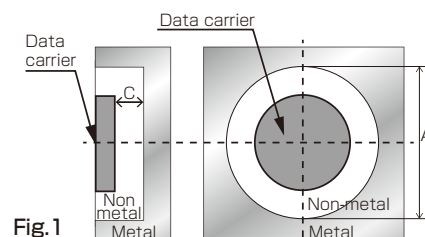


Fig.1

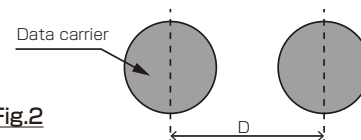


Fig.2