IDEC

XA/XW/FB E-Stops

Features

- Emergency stop switches with safety slave functions can be connected to the ASface Safety at Work network.
- Complies with IEC61508 SIL3 (Functional safety of electrical/electronic/programm electronic safety-related systems) and EN954-1 safety category 4 (Safety of machi Safety related parts of control systems).
- · Space, wire and labor-saving solutions for safety equipment
- Equipped with AS-Interface standard slave functions. Monitored with AS-Interface devices.











Part Numbers

ø16mm XA Series

	Button/Lens Size	Connector Terminal	I/O Points	Illumination	Part Numbers	Button/Lens (*) Color Code
	29mm	IDC	1-IN	Non-illuminated	XA1E-BV3Z10C1*	
			1-IN 1-OUT	Illuminated	XA1E-LV3Z114C1R	R: red RH: bright red
	40mm		1-IN	Non-illuminate	d XA1E-BV4Z10C	
			1-IN 1-OUT	Illuminated	XA1E-LV4Z114C	(29mm only) 1R



- 1. *Grey is used for teaching pendants and not to be used as an E-Stop.
- 2. †IDC insulation displacment connector.

ø22mm XW Series

Button/Lens Size	Connector Terminal	I/O Points	Illumination	Part Numbers	Button/Lens (*) Color Code
40mm 60mm	IDC	1-IN	Non-illuminate	XW1E-BV4Z10C1*	R: red RH: bright red
	Crimp			XW1E-BV4Z10C2*	
	IDC	1-IN 1-OUT	Illuminated	XW1E-LV4Z114C1R	
	Crimp			XW1E-LV4Z114C2R	
	IDC	1-IN	Non-illuminate	XW1E-BV5Z10C1*	
	Crimp			XW1E-BV5Z10C2*	

FB Series (Plastic Box + XW Series)

	Button/Lens Size	Connector Terminal	I/O Points	Illumination	Nameplate	Part Numbers	Button/Lens (*) Color Code
& UNENCENCY	40mm	M12	1-IN	Non-illuminated	Without	FB1W-XW1EBV4Z10C2*-Y0-1	R: red RH: bright red
					With	FB1W-XW1EBV4Z10C2*-Y1-1	
			1-IN 1-OUT	Illuminated	Without	FB1W-XW1ELV4Z114C2R-Y0-1	
					With	FB1W-XW1ELV4Z114C2R-Y1-1	
	60mm		1-IN	Non-illuminated	Without	FB1W-XW1EBV5Z10C2*-Y0-1	
	40mm	AS-interface Piercing	1-IN	Non-illuminated	Without	FB1W-XW1EBV4Z10C2*-Y0-2	
					With	FB1W-XW1EBV4Z10C2*-Y1-2	
			9 1-IN 1-OUT	Illuminated	Without	FB1W-XW1ELV4Z114C2R-Y0-2	
					With	FB1W-XW1ELV4Z114C2R-Y1-2	
	60mm		1-IN	Non-illuminated	Without	FB1W-XW1EBV5Z10C2*-Y0-2	



"EMERGENCY STOP" is engraved on the nameplate.

IDEC

General Specifications					
Operating Voltage	26.5 to 31.6V DC (supplied from AS-Interface)				
Input Current	Illuminated: 35mA (XA series), 40mA (XW, FB series) Non-illuminated: 25mA				
Dielectric Strength	500V AC, 1 minute				
Insulation Resistance	100 MΩ (500V DC megger)				
Operating Temperature	XA, XW series: -25 to +55°C (no freezing) FB series: Illuminated -25 to +50°C (no freezing) Non-illuminated -25 to +55°C (no freezing)				
Storage Temperature	-40 to +70°C (no freezing)				
Operating Humidity	45 to 85% RH (no condensation)				
Pollution Degree (IEC60664)	XA, XW series Operator unit: 3, Communication unit: 2				
Foliation Degree (IEC00004)	FB series: 3 (UL rating: 2)				
Degree of Protection (IEC60529)	Operator unit: IP65 Terminal unit: IP20 (FB series: IP65)				
Corrosion Immunity	Free from corrosive gases				
Vibration Resistance	Damage limits/Operating extremes: 10 to 500 Hz, amplitude 0.35mm, acceleration 50 m/s² (5G)				
Shock Resistance	Damage limits: 150 m/s² (15G) Operating extremes: 1000 m/s² (100G)				
Weight (approx.)	XA series ø29: 35g, ø40: 40g XW series ø40: 60g, ø60: 70g FB series M12 connector: 195g (ø40), 205g (ø60) Piercing: 235g (ø40), 245g (ø60)				

Mechanical/Electrical Specifications

Operating Force	Pushlock: 10.5N (XA series), 32N (XW, FB series) Pull reset: 10N (XA series), 21N (XW, FB series) Turn reset: 0.16N·m (XA series), 0.27 N·m (XW, FB series)				
Miniumum Force Required for Direct Opening Action	60N (XA series), 80N (XW, FB series)				
Minimum Operator Stroke Required for Direct Opening Action	4.0mm				
Maximum Operating Stroke	4.5mm				
Operation Frequency	900 operations/hour				
Mechanical Life	250,000 operations minimum				
Electrical Life	250,000 operations minimum				
Connectors	IDC connector (XA series) IDC connector, crimping connector (XW series) M12 connector/AS-Interface piercing connector (FB series)				
Recommended Tightening Torque for Locking Ring	0.88 N·m (XA series), 2.0 N·m (XW series)				

Communication Specifications

Communication		AS-Interface Ver. 3.0
Slave Type		Safety slave
Maximum Network Length		100m total
Maximum No. of Slaves		31 (when only safety slaves are connected)
Profile (I/O, ID, ID2)		S-7, B, E (illuminated type) S-0, B, E (non-illuminated type)
	Input	Emergency stop switch DI0 DI1 DI2 DI3
		When pressed 0 0 0 0
Data Bit		Emergency stop switch DI0 DI1 DI2 DI3
Data Dit		When not pressed X X X X X: 0.1 (Unspecified)
	Output	D00 = 1 Pilot light: on D01 to 3: not used
		D00 = 0 Pilot light: off
Parameter Bit		Not used

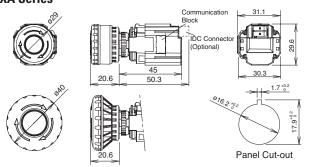
Accessories

Name	Specification	Part Numbers	
XA/XW Series	End connector (with cover)	XW9Z-C100-1	
IDC Connector Kit*	Through connector (with cover)	XW9Z-C100-2	
IDC Connector Termination Tool	Manufactured by ITW Pancon	MMIT-156F	
XW Series Connector Cable	Length 500mm, without connector	XW9Z-C205	
AVV Series Connector Cable	Length 1m, without connector	XW9Z-C210	
FB Series Control Box	Length 300mm, straight	FB9Z-CS03	
	Length 1m, straight	FB9Z-CS10	
M12 Connector Cable	Length 2m, straight	FB9Z-CS20	
IVITZ COTTRECTOL CADIE	Length 1m, right-angle	FB9Z-CL10	
	Length 2m, right-angle	FB9Z-CL20	

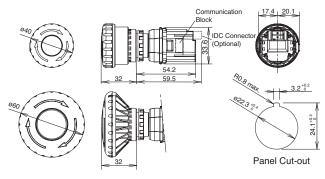


*The package quantity is 5 pieces. IDC connector termination tool MMIT-156F (ITW Pancon) is needed to connect the cable to the connector.

Dimensions/Panel Cut-out XA Series

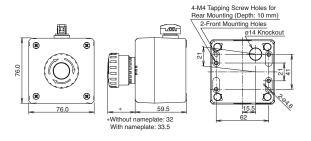


XW Series

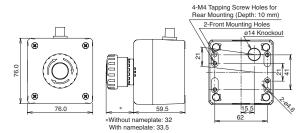


FB Series

AS-Interface Piercing Type



M12 Connector Type



M12 Connector Cable for FB Series Box

