keep a SharpEye on your safety









40/40UFL 40/40L4-L4B 40/40U-UB





40/40I Triple IR (IR3) Flame Detector

Superior performance, reliability and immunity to false alarms



SharpEye`

The new 40/40I, a multi spectrum based on three IR bands (IR3), detects fuel and gas fires at long distances with the highest immunity to false alarms. The 40/40I IR3 can detect a 1 ft^2 (0.1m²) gasoline pan fire at 215 ft (65m) in less than 5 seconds.

The 40/40I is the most durable and weather resistant flame detector currently on the market. Its new features include a heated window, to eliminate condensation and icing; HART capabilities for digital communications; lower power requirements; and a compact, lighter design.

Due to increased reliability, the 40/40 Series warranty period has been extended to 5 years and is SIL2 (TUV) approved to IEC 61508.

FEATURES & BENEFITS

- Multi spectrum design for long distance detection and high false alarm immunity
- Sensitivity selection to ensure no zone crossover detection
- Automatic and Manual Built-In-Test (BIT) to assure continued reliable operation
- Heated window for operation in harsh weather conditions (snow, ice, condensation)
- Multiple output options for maximum flexibility and compatibility
- Relays (3) for Alarm, Fault and Auxiliary
- 0-20mA (stepped)
- HART Protocol for maintenance and asset management - RS-485, Modbus Compatible
- High Reliability MTBF minimum 150,000 hours
- Approved to Safety Integrity Level 2 (SIL2 TUV)
- 5-Year Warranty
- User Programmable via HART or RS-485
- Hazardous area zones:
- Zones 1 & 2 with IIC gas group vapors present - Zones 21 & 22 with IIIC dust type present
- Ex approved to:
- ATEX & IECEx
- FM/FMC/CSA
- TR CU (EAC)
- 3rd party performance tested
 EN54-10 (VdS)
- FM3260
- Marine Approval
 - MED 'Wheelmark' approval (DNV)

APPLICATIONS

Offshore Oil & Gas installations Onshore Oil & Gas installations and pipelines Chemical plants Petrochemicals plants Storage Tank farms Aircraft hangars Power Generation facilities Pharmaceutical Industry Printing Industry Warehouses Automotive Explosives & Munitions Waste Disposal facilities



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GENERAL SPECIFICATIONS

	RAL SPEC	511 10/1				ter and the second s				
Spectral Resp	onse		Three IR Ba	ands						
Detection Ran			Fuel	ft / m	Fuel		ft / m	Fuel		ft / m
at highest Ser	nsitivity Sett	ing	n-Heptane		Kerosen	Э	150 / 45	Methane*		150 / 45
or 1ft ² (0.1m ²)) pan fire)		Gasoline	215/65	Ethanol 9	95%	135/40	LPG*		150/45
			Diesel Fuel	150/45	Methano	I	115 / 35	Polypropylene Pe	llets	115 / 35
			JP5	150/45	IPA (Isop	ropyl Alcohol)	135/40	Office Paper		83 / 25
			* 30" (0.75m)) high, 10" (0	.25m) width pl	ume fire				
esponse Time	e		Typically 5 s	seconds						
djustable Tim	ne Delay		Up to 30 se	econds						
ensitivity Rar	nges		4 Sensitive	ranges for	1 ft ² (0.1m ²	²) n-heptane	pan fire fron	n 50 ft (15m) to 215	5 ft (65	m)
ield of View			Horizontal 1							
Built-in-Test (B	BIT)		Automatic (and Manua	il)					
emperature R	lange		Operating:	-67°F to	+167°F (-55°C to +75°	C)			
	-		Option:	-67°F to	+185°F (-55°C to +85°	C)			
			Storage:	-67°F to	+185°F (-55°C to +85°	Ċ)			
lumidity								short periods)		
leated Optics						ng on the wind				
· ·										
ELECT	'RICAL SI	PECIFI	CATION	S						
perating Volt	age	:	24 VDC nor	ninal (18-3	2 VDC)					
Power Consumption			Standby: N	Max. 90m	A (110m/	A with heated	window)			
	•					A with heated				
able Entries			2 x 3/4" - 1	4NPT cond	uits or 2 x M	/I25 x 1.5 mm	ISO			
Viring			12 - 22AWG							
Electrical Inpu	t Protection		According to							
lectromagnet						and EN61000)-6-3			
lectrical Inter								ing options (factory	set)	
					()		()		,	
OUTPU	UTS									
Relays			Alarm, Fault	t and Auxil	ary					
-					s rated 2A a	at 30V DC				
)-20mA (stepp	oed)		Sink (sourc	e option) c	onfiguration					
				0 +1mA		Varning:	16mA ±	F 9/		
							TOUNA T	570		
			BIT Fault:	$2mA \pm 10^{\circ}$		0				
			BIT Fault: Normal:		% A	larm:	20mA ±	5%		
HART Protocol			Normal:	4mA ± 10	% A % F	Marm: Resistance Lo	20mA ± op: 100-60	= 5% Ο Ω	mainte	nance.
HART Protocol	1		Normal: Optional HA	4mA ± 10 ART commu	%	Narm: Resistance Lo 1 the 0-20mA	20mA ± op: 100-60 analog curr	= 5% 10 Ω ent (FSK) - used for		
HART Protocol RS-485	I		Normal: Optional HA configuratio	4mA ± 10 ART commu on changes	% / % F Inications of and asset r	Narm: Resistance Lo n the 0-20mA management,	20mA ± op: 100-60 analog curr available in	= 5% Ο Ω ent (FSK) - used for mA source output v	wiring o	ptions
RS-485			Normal: Optional HA configuratio RS-485 Moo	4mA ± 10 ART commu on changes dbus compa	% / % F Inications of and asset r	Narm: Resistance Lo n the 0-20mA management,	20mA ± op: 100-60 analog curr available in	= 5% 10 Ω ent (FSK) - used for	wiring o	ptions
RS-485	ANICAL		Normal: Optional HA configuratio RS-485 Moo	4mA ± 10 ART commu on changes dbus compa	% / % F Inications of and asset r	Narm: Resistance Lo n the 0-20mA management,	20mA ± op: 100-60 analog curr available in	= 5% Ο Ω ent (FSK) - used for mA source output v	wiring o	ptions
RS-485 MECH		SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO	4mA ± 10 ART commu on changes dbus compa NS	% / % F inications or and asset r atible commu	Marm: Resistance Lo n the 0-20mA management, unication link tl	20mA ± op: 100-60 analog curr available in hat can be u	= 5% Ο Ω ent (FSK) - used for mA source output v	wiring o	ptions
RS-485 MECH. Materials	ANICAL	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless	$4mA \pm 10^{\circ}$ ART commu on changes dbus compa NS Steel 316L	% / // F inications of and asset r atible commu with electro	Alarm: Resistance Lo n the 0-20MA nanagement, unication link tl	20mA ± op: 100-60 analog curr available in hat can be u	- 5% Ο Ω ent (FSK) - used for mA source output v sed in computer con	wiring o trolled i	ptions installations
RS-485 MECH. Materials Enclosure optic	ANICAL	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty	$4mA \pm 10^{\circ}$ ART communication changes dbus compared NS Steel 316L copper free	% / // F inications of and asset r atible commu with electro aluminum (Narm: Resistance Lo n the 0-20mA management, unication link tl p polish finish less than 1%),	20mA ± op: 100-60 analog curr available in hat can be u	= 5% Ο Ω ent (FSK) - used for mA source output v	wiring o trolled i	ptions installations
RS-485 MECH Materials Enclosure optic Mounting	ANICAL	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S	$4mA \pm 10^{\circ}$ ART communication changes dbus compared NS Steel 316L copper free	% / % F inications of and asset r atible commu- with electro with electro	Narm: Resistance Lo n the 0-20mA nanagement, unication link the polish finish polish finish	20mA ± op: 100-60 analog curra available in hat can be u red epoxy en	= 5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availa	wiring o trolled i	ptions installations
RS-485 MECH Materials Enclosure optic Mounting Dimensions	ANICAL	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S Detector	4mA ± 10 ⁰ ART commu on changes dbus compa bus NS Steel 316L copper free steel 316L	% / / % F inications or and asset in atible commu- with electro 4" x 4.6"	Narm: Resistance Lo n the 0-20mA management, unication link the polish finish ess than 1%), polish finish x 6.18" (10	20mA ± op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x	: 5% Ο Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not avail: x 157 mm)	wiring o trolled i	ptions installations
RS-485 MECH Materials Enclosure optic Mounting Dimensions	ANICAL	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S Detector Detector (S	4mA ± 10' ART commu on changes dbus compe MS Steel 316L copper free tteel 316L t.St.)	% A % F inications or and asset r atible commu with electro 4" x 4.6" 6.1 lb (2	Marm: Resistance Lo In the 0-20MA management, unication link the polish finish ess than 1%), polish finish x 6.18" (10 2.8 kg)	20mA ± op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x	= 5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availa	wiring o trolled i	ptions installations
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Weight	ANICAL	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S Detector Detector (S Detector, al	4mA ± 10 ⁰ ART commu on changes dbus compa- blus compared Steel 316L copper free tteel 316L t.St.) luminum	% A % F inications or and asset r atible commu with electro 4" x 4.6" 6.1 lb (2 2.8 lb (1	Alarm: Resistance Lo In the 0-20MA management, unication link the popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg)	20mA ± op: 100-60 analog curr available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun	5% 0 Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availant (157 mm) t 2.2 lb (1.0 kg)	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Weight Environmental	ANICAL and and a standards	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S Stainless S Stainless S Detector Detector (S Detector, al Meets MILS	4mA ± 10° ART commu on changes dbus compa- steel 316L copper free teel 316L t.St.) luminum STD-810C	% // % // inications or and asset r atible commu- with electror 4" x 4.6" 6.1 lb (2 2.8 lb (1) for Humidity,	Alarm: Resistance Lo In the 0-20MA management, unication link the popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V	20mA ± op: 100-60 analog curr available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun	: 5% Ο Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not avail: x 157 mm)	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Aaterials Enclosure optic Jounting Dimensions Veight Environmental Vater and Dus	ANICAL a ons Standards st	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S Stainless S Stainless S Detector Detector (S Detector, al Meets MILS	4mA ± 10° ART commu on changes dbus compa- steel 316L copper free teel 316L t.St.) luminum STD-810C	% A % F inications or and asset r atible commu with electro 4" x 4.6" 6.1 lb (2 2.8 lb (1	Alarm: Resistance Lo In the 0-20MA management, unication link the popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V	20mA ± op: 100-60 analog curr available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun	5% 0 Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availant (157 mm) t 2.2 lb (1.0 kg)	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Aaterials Enclosure optic Mounting Dimensions Veight Environmental	ANICAL a ons Standards st	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S Stainless S Stainless S Detector Detector (S Detector, al Meets MILS	4mA ± 10° ART commu on changes dbus compa- steel 316L copper free teel 316L t.St.) luminum STD-810C	% // % // inications or and asset r atible commu- with electror 4" x 4.6" 6.1 lb (2 2.8 lb (1) for Humidity,	Alarm: Resistance Lo In the 0-20MA management, unication link the popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V	20mA ± op: 100-60 analog curr available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun	5% 0 Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availant (157 mm) t 2.2 lb (1.0 kg)	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Neight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless S - Heavy duty Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP	4mA ± 10° ART commu on changes dbus compe MS Steel 316L copper fre- teel 316L t.St.) luminum STD-810C * 267 per EN	% // % // inications or and asset r atible commu- with electror 4" x 4.6" 6.1 lb (2 2.8 lb (1) for Humidity,	Alarm: Resistance Lo In the 0-20MA management, unication link the popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V	20mA ± op: 100-60 analog curr available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun	5% 0 Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availant (157 mm) t 2.2 lb (1.0 kg)	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Veight Environmental Vater and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless S - Heavy duty Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP	4mA ± 10° ART commu on changes dbus compe MS Steel 316L copper free teel 316L t.St.) luminum STD-810C P67 per EN	% / % F inications or and asset r atible commu with electro 4" x 4.6" 6.1 lb (2 2.8 lb (1 for Humidity, 60529, NEN	Marm: Resistance Lo In the 0-20MA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 3 kg) Salt & Fog, V MA 250 6P	20mA ± op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me	= 5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not avail amel finish (not avail t 157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Veight Environmental Vater and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEX E	4mA ± 10' ART commu on changes dbus compa- steel 316L copper fre- teel 316L t.St.) luminum STD-810C 267 per EN	% / / % F inications or and asset r atible commu with electro 4" x 4.6" 6.1 lb (2 2.8 lb (1 for Humidity, 60529, NEM is IIC T4 Gt	Marm: Resistance Lo In the 0-20MA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V MA 250 6P	20mA ± op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op	= 5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not avail a 157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig b is IIC T4 Gb	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Neight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless - Heavy duty Stainless S Detector Detector (S Detector, al Meets MIL-5 IP66 and IP nd IECEx E E	4mA ± 10' ART commu on changes dbus compa- steel 316L (copper free teel 316L t.St.) luminum STD-810C P67 per EN Ex II 2 G D Ex db eb op Ex tb op is	% / / % F inications or and asset in atible commu with electro 4" x 4.6" 6.1 lb (2 2.8 lb (1 for Humidity, 60529, NEM is IIC T4 Gb IIC T96°C D	Marm: Resistance Lo In the 0-20MA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V MA 250 6P	20mA ± op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex db eb op	= 5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not avail a 157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig b is IIC T4 Gb IIIC T106°C Db	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Neight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP and IECEX E E E (-	$\frac{4\text{mA} \pm 10^{\circ}}{\text{ART communication changes}}$ $\frac{\text{NS}}{\text{Steel 316L}}$ $\frac{1600}{100000000000000000000000000000000$	% A % F inications or and asset in tible commu- with electro A aluminum (with electro A × 4.6" 6.1 lb (2 2.8 lb (1 for Humidity, 50529, NEM is IIC T4 Gk IIC T96°C D ≤ +75°C)	Alarm: Resistance Lo In the O-20MA management, unication link the polish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V IA 250 6P	20mA ± op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op	= 5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not avail a 157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig b is IIC T4 Gb IIIC T106°C Db	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Neight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEX E E C/CSA C	$\begin{array}{l} 4\text{mA} \pm 10^{\circ}\\ \text{ART communication changes}\\ \text{dbus comparison changes}\\ \text{dbus comparison changes}\\ \text{Steel 316L}\\ \text{copper free}\\ \text{copper free}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper EN}\\ \text{Comparison changes}\\ \text{STD-810C}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{copper free}\\ \text{copper free}\\ \text{comparison changes}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{comparison changes}\\ \text{comparison changes}$	% A % F inications or and asset in tible commu- with electro $A^{"} x 4.6^{"}$ 6.1 lb (2 2.8 lb (1 for Humidity, 50529, NEM is IIC T4 Gk IIC T96°C D ≤ +75°C) 1, Groups E	Alarm: Resistance Lo In the O-20MA management, unication link the polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V IA 250 6P b b	20mA ± op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex db eb op	= 5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not avail a 157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig b is IIC T4 Gb IIIC T106°C Db	wiring o trolled i able in l	ptions nstallations FM version)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Neight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII ATEX ar	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEX E E C/CSA C	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART communication changes}\\ \text{dbus comparison changes}\\ \text{dbus comparison changes}\\ \text{Steel 316L}\\ \text{copper free}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper EN}\\ \text{Carbon changes}\\ \text{STD-810C}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{comper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{luminum}\\ \text{STD-810C}\\ \text{copper free}\\ \text{copper free}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ \text{copper free}\\ \text{copper free}\\ \text{t.St.}\\ t$	% A % F inications or and asset r atible commu- with electro A" x 4.6" 6.1 lb (2 2.8 lb (1 2.8 lb (1 0 or Humidity, 50529, NEM is IIC T4 Gb IIC T96°C D ≤ +75°C) 1, Groups E Div. 1, Group	Narm: Resistance Lo in the 0-20mA management, unication link tl popolish finish ess than 1% , polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V 1A 250 GP b b c, C & D os E, F & G	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta	5% 0 Ω ent (FSK) - used for mA source output vi- sed in computer con- amel finish (not avail- 157 mm) t 2.2 lb (1.0 kg) chanical Shock, High p is IIC T4 Gb IIIC T106°C Db ≤ +85°C)	viring o trolled i able in I	ptions Installations FM version) , Low Temp
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Veight Environmental Vater and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII	Normal: Optional HA configuratio RS-485 Moo FICATIO - Stainless S - Heavy duty Stainless S Stainless S Stainless S Detector (S Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEx E E C/CSA C C EAC) 1	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% 4 % F inications or and asset r atible commu- with electro 4" x 4.6" 6.1 lb (2 2.8 lb (1 cor Humidity, 30529, NEM is IIC T4 Gb IIC T96°C D ≤ +75°C) 1, Groups E Div. 1, Group pp is IIC T4 0	Alarm: Resistance Lo In the 0-20MA management, unication link tl popolish finish less than 1%), polish finish x 6.18" (10 2.8 kg) 3 kg) Salt & Fog, V IA 250 6P b b c, C & D os E, F & G Gb X 1 Ex db	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIC	5% O Ω ent (FSK) - used for mA source output vi- sed in computer con amel finish (not avail- 157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e	wiring o trolled i able in I h Temp b mb o	ptions Installations FM version) , Low Temp p is II T4 Gi
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Veight Environmental Vater and Dus APPRC	ANICAL : ons Standards St DVALS	SPECII ATEX ar	Normal: Optional HA configuratio RS-485 Mor FICATIO - Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEX E E (- C/CSA C EAC) 1	$4\text{mA} \pm 10^{\circ}$ ART communication changes dous compared to the second state of the	% A % F inications or and asset r atible commu- with electron 4" x 4.6" 6.1 lb (2 2.8 lb (1) for Humidity, 60529, NEM is IIC T4 Gt IIC T96°C D Div. 1, Groups E Div. 1, Groups E	Narm: Resistance Lo n the 0-20mA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIC b is IIIC T106	5% O Ω ent (FSK) - used for mA source output vi- sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, High D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is	kiring o trolled i able in I h Temp b mb o s IIIC TS	ptions Installations FM version) , Low Temp p is II T4 Gi 98°C Db X
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Veight Environmental Vater and Dus APPRC Hazardous Are	ANICAL : ons Standards St DVALS	SPECII ATEX ar FM/FM0 TR CU (Normal: Optional HA configuratio RS-485 Moo - Stainless S Detector Detector (S Detector, al Meets MIL-§ IP66 and IP nd IECEX E E C/CSA C EAC) 1	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% A % F inications or and asset r atible commu- with electron 4" x 4.6" 6.1 lb (2 2.8 lb (1) for Humidity, 60529, NEM is IIC T4 Gt IIC T96°C D Div. 1, Groups E Div. 1, Groups E	Narm: Resistance Lo n the 0-20mA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIC	5% O Ω ent (FSK) - used for mA source output vi- sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, High D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is	kiring o trolled i able in I h Temp b mb o s IIIC TS	ptions Installations FM version) , Low Temp p is II T4 Gi 98°C Db X
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC Hazardous Are	ANICAL : ons Standards St DVALS	SPECII ATEX ar FM/FM0 TR CU (EN54-1	Normal: Optional HA configuratio RS-485 Moo - Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEX E E C/CSA C EAC) 1 E C (VdS)	$4\text{mA} \pm 10^{\circ}$ ART communication changes dous compared to the second state of the	% A % F inications or and asset r atible commu- with electron 4" x 4.6" 6.1 lb (2 2.8 lb (1) for Humidity, 60529, NEM is IIC T4 Gt IIC T96°C D Div. 1, Groups E Div. 1, Groups E	Narm: Resistance Lo n the 0-20mA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIC b is IIIC T106	5% O Ω ent (FSK) - used for mA source output vi- sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, High D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is	kiring o trolled i able in I h Temp b mb o s IIIC TS	ptions Installations FM version) , Low Temp p is II T4 GI 98°C Db X
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC Hazardous Are	ANICAL : ons Standards St DVALS	SPECII ATEX ar FM/FM0 TR CU (EN54-1 FM3260	Normal: Optional HA configuratio RS-485 Moo - Stainless S Detector Detector (S Detector, al Meets MIL-5 IP66 and IP nd IECEx E E C/CSA C EAC) 1 E C 0 (VdS) 0	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% A % F inications or and asset r atible commu- with electron 4" x 4.6" 6.1 lb (2 2.8 lb (1) for Humidity, 60529, NEM is IIC T4 Gt IIC T96°C D Div. 1, Groups E Div. 1, Groups E	Narm: Resistance Lo n the 0-20mA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIC b is IIIC T106	5% O Ω ent (FSK) - used for mA source output vi- sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, High D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is	kiring o trolled i able in I h Temp b mb o s IIIC TS	ptions Installations FM version) , Low Temp p is II T4 GI 98°C Db X
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC Hazardous Are Performance Reliability	ANICAL : ons Standards St DVALS	SPECII ATEX ar FM/FM4 TR CU (EN54-1 FM3260 IEC615	Normal: Optional HA configuratio RS-485 Moo - Stainless - Heavy duty Stainless S Detector Detector (S Detector, al Meets MIL-5 IP66 and IP nd IECEX E E C/CSA C EAC) 1 E E C/CSA C EAC) 1 E C 0 (VdS) 0 08 - SIL2 (T	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$	Narm: Resistance Lo n the 0-20mA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIC b is IIIC T106	5% O Ω ent (FSK) - used for mA source output vi- sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, High D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is	kiring o trolled i able in I h Temp b mb o s IIIC TS	ptions Installations FM version) , Low Temp p is II T4 Gi 98°C Db X
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Veight Environmental Vater and Dus APPRC Hazardous Are Performance Reliability	ANICAL : ons Standards St DVALS	SPECII ATEX ar FM/FM4 TR CU (EN54-1 FM3260 IEC615	Normal: Optional HA configuratio RS-485 Moo - Stainless S Detector Detector (S Detector, al Meets MIL-5 IP66 and IP nd IECEx E E C/CSA C EAC) 1 E C 0 (VdS) 0	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$	Narm: Resistance Lo in the 0-20mA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIC b is IIIC T106	5% O Ω ent (FSK) - used for mA source output vi- sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, High D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is	kiring o trolled i able in I h Temp b mb o s IIIC TS	ptions Installations FM version) , Low Temp p is II T4 Gi 98°C Db X
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Veight Environmental Vater and Dus APPRC Hazardous Are Performance Reliability Marine	ANICAL Sons	SPECII ATEX ar FM/FM4 TR CU (EN54-1 FM3260 IEC615	Normal: Optional HA configuratio RS-485 Moo - Stainless - Heavy duty Stainless S Detector Detector (S Detector, al Meets MIL-5 IP66 and IP nd IECEX E E C/CSA C EAC) 1 E E C/CSA C EAC) 1 E C 0 (VdS) 0 08 - SIL2 (T	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$	Narm: Resistance Lo in the 0-20mA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIC b is IIIC T106	5% O Ω ent (FSK) - used for mA source output vi- sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, High D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is	kiring o trolled i able in I h Temp b mb o s IIIC TS	ptions Installations FM version) , Low Temp p is II T4 Gi 98°C Db X
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC Hazardous Are Performance Reliability Marine ACCES	ANICAL Sons	SPECII ATEX ar FM/FM4 TR CU (EN54-1 FM3260 IEC615 MED 'W	Normal: Optional HA configuratio RS-485 Moo - Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEX E E (- C/CSA (C EAC) 1 E C (VdS) 0 08 - SIL2 (T /heelmark')	$\begin{array}{l} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$	Alarm: Resistance Lo In the 0-20MA management, unication link tl popolish finish ess than 1%), polish finish x 6.18" (10 2.8 kg) Salt & Fog, V IA 250 6P Salt & Fog, V IA 250 6P b b b c, C & D s E, F & G Gb X 1 Ex db o X Ex tb op (-55°C	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIIC b is IIIC T106 \leq Ta \leq +85°	5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig chanical Shock, Hig D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is C) (-55°C ≤	kiring o trolled i able in I h Temp b mb o s IIIC T Ta ≤ + ⁻	ptions Installations FM version) , Low Temp p is II T4 Gl 98°C Db X 75°C)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC Hazardous Are Performance Reliability Marine ACCES Flame Simulator	ANICAL S ons Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards	SPECII ATEX ar FM/FM0 TR CU (EN54-1 FM3260 IEC615 MED 'W U-Bolt/	Normal: Optional HA configuratio RS-485 Moo - Stainless - Heavy duty Stainless S Detector Detector (S Detector, al Meets MIL-5 IP66 and IP nd IECEX E E C/CSA C EAC) 1 E E C/CSA C EAC) 1 E C 0 (VdS) 0 08 - SIL2 (T	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% / A % F inications or and asset r atible commu with electro 4" x 4.6" 6.1 lb (2 6.2 8 lb (1 for Humidity, 50529, NEM is IIC T4 6t S0529, NEM is IIC T96°C D ≤ $+75°$ C) 1, Groups E Div. 1, Gr	Alarm: Resistance Lo In the 0-20MA management, unication link tl polish finish rs 6.18" (10 3 kg) Salt & Fog, V IA 250 6P Solt & Fog, V IA 250 6P Solt & Fog, V IA 250 6P Solt & Tex db to X Ex tb op (-55°C	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIIC b is IIIC T106 \leq Ta \leq +85°	5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig chanical Shock, Hig D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is	wiring o trolled i able in I h Temp b mb o s IIIC T Ta \leq + Ta \leq +	ptions nstallations FM version) , Low Temp p is II T4 GI 98°C Db X 75°C) 163 (St.St)
RS-485 MECH. Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC Hazardous Are Performance Reliability Marine ACCES Flame Simulator Filt Mount	ANICAL S ons Standards Standards or Son Son Standards SSORIES FS-1100 40/40-001	SPECII ATEX ar FM/FM0 TR CU (EN54-1 FM3260 IEC615 MED 'W U-Bolt/	Normal: Optional HA configuratio RS-485 Mod - Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEX E E C/CSA C EAC) 1 0 0 (VdS) 0 0 8 - SIL2 (T /heelmark's	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$	Alarm: Resistance Lo In the 0-20MA management, unication link tl polish finish rs 6.18" (10 3 kg) Salt & Fog, V IA 250 6P Solt & Fog, V IA 250 6P Solt & Fog, V IA 250 6P Solt & Tex db to X Ex tb op (-55°C	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIIC b is IIIC T106 \leq Ta \leq +85°	5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig chanical Shock, Hig D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is C) (-55°C ≤	wiring o trolled i able in I h Temp b mb o s IIIC T Ta \leq + Ta \leq +	ptions Installations FM version) , Low Temp p is II T4 Gl 98°C Db X 75°C)
RS-485 MECH Materials Enclosure optic Mounting Dimensions Weight Environmental Nater and Dus APPRC Hazardous Are Performance Reliability Marine ACCES	ANICAL S ons Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards Standards	SPECII ATEX ar FM/FM TR CU (EN54-1 FM3266 IEC615 MED 'W U-Bolt/ USB RS	Normal: Optional HA configuratio RS-485 Moo - Stainless S Detector Detector (S Detector, al Meets MIL-S IP66 and IP nd IECEX E E (- C/CSA (C EAC) 1 E C (VdS) 0 08 - SIL2 (T /heelmark')	$\begin{array}{c} 4\text{mA} \pm 10^{\circ}\\ \text{ART commulation changes}\\ dbus comparison of the compari$	% $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$ $/$	Alarm: Resistance Lo In the 0-20MA management, unication link tl polish finish rs 6.18" (10 3 kg) Salt & Fog, V IA 250 6P Solt & Fog, V IA 250 6P Solt & Fog, V IA 250 6P Solt & Tex db to X Ex tb op (-55°C	20mA \pm op: 100-60 analog curra available in hat can be u red epoxy en 01.6 x 117 x Tilt moun ibration, Me Ex db eb op Ex tb op is (-55°C \leq Ta eb op is IIIC b is IIIC T106 \leq Ta \leq +85°	5% O Ω ent (FSK) - used for mA source output v sed in computer con amel finish (not availe (157 mm) t 2.2 lb (1.0 kg) chanical Shock, Hig chanical Shock, Hig D is IIC T4 Gb IIIC T106°C Db ≤ +85°C) T4 Gb X 1 Ex db e 6°C Db X Ex tb op is C) (-55°C ≤	wiring o trolled i able in I h Temp b mb o s IIIC T Ta \leq + Ta \leq +	ptions nstallations FM version) , Low Temp p is II T4 G 98°C Db X 75°C) 163 (St.St)

 $\ast Supplied free of charge with the detector$

Specifications subject to change For more information view manual or website www.spectrex.net

