

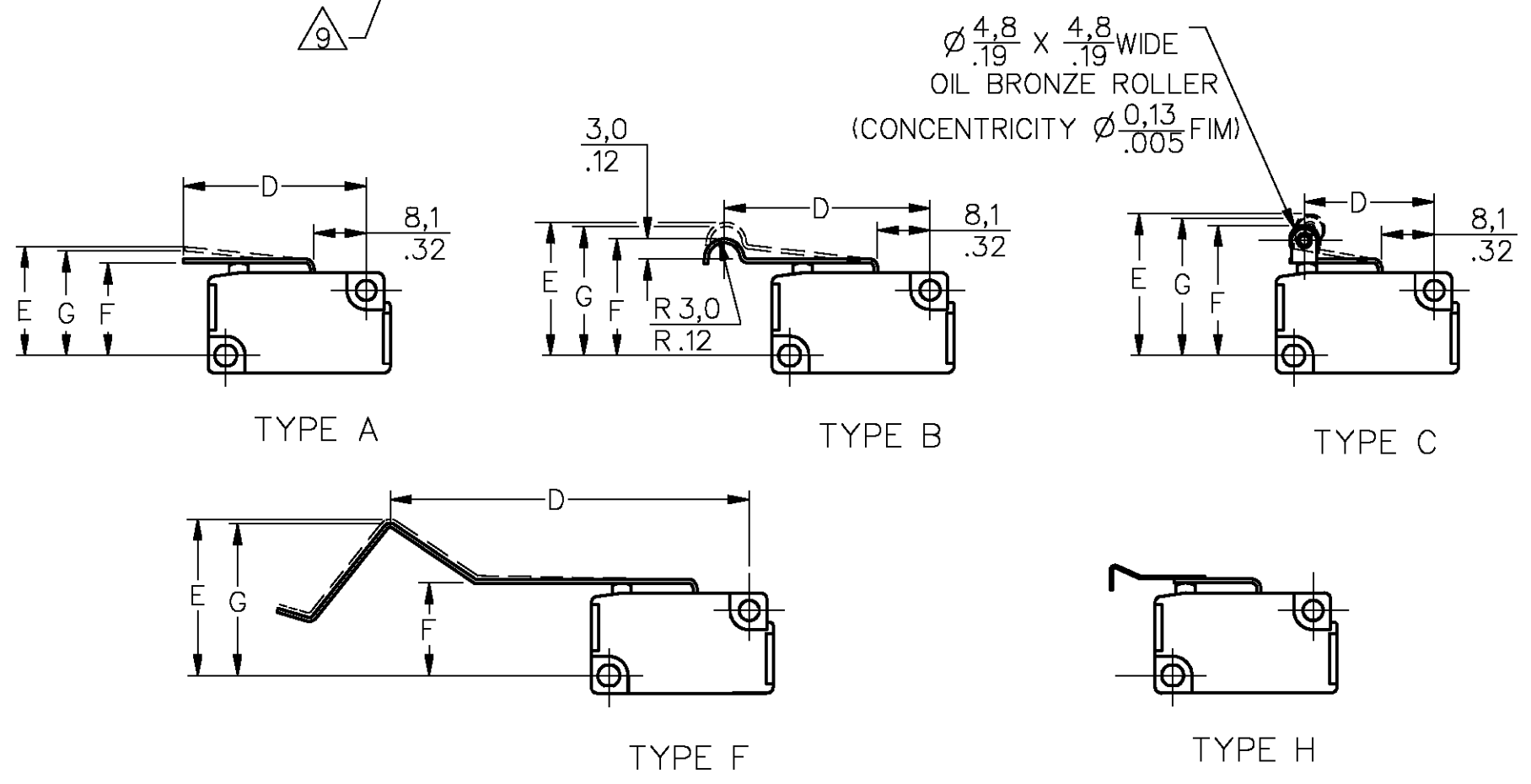
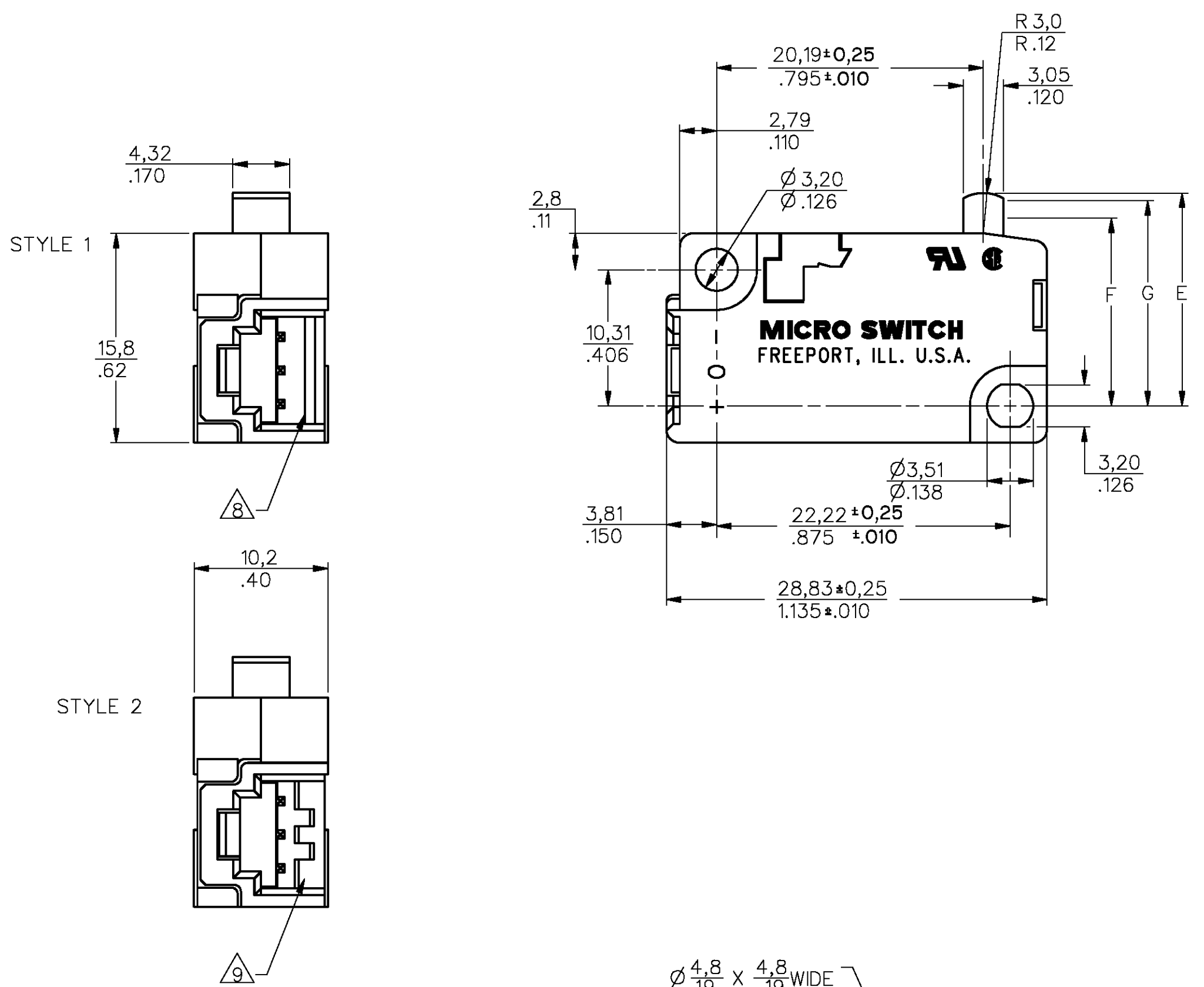
**ABSOLUTE MAXIMUM RATINGS**

SUPPLY VOLTAGE (V <sub>S</sub> )	-24 TO +28 VOLTS DC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	28 VOLTS DC MAX WITH OUTPUT TRANSISTOR IN OFF CONDITION ONLY $\sqrt{1\sqrt{6}}$ -0.5 VOLTS MIN WITH OUTPUT TRANSISTOR IN ON OR OFF CONDITION $\sqrt{1\sqrt{6}}$
LOAD ON OUTPUT	20mA
TEMPERATURE $\sqrt{11}$	-40°C TO +70°C EXCEPT SPECIAL LISTINGS

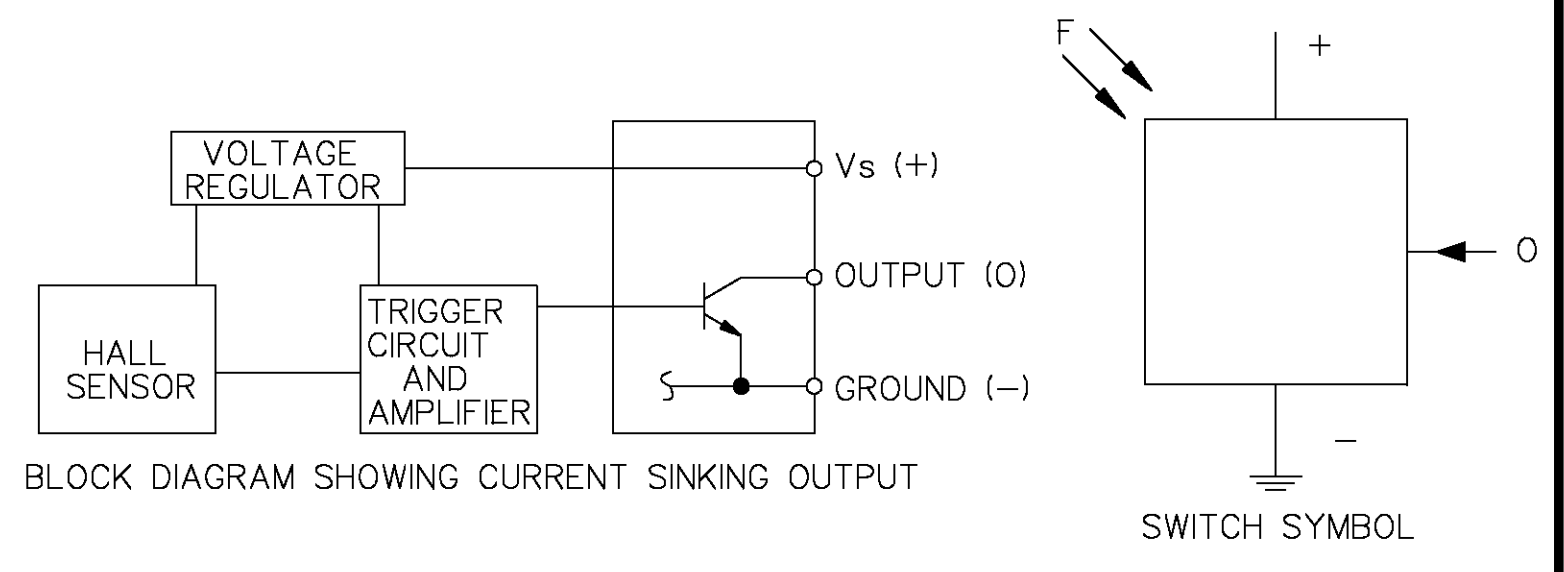
**ELECTRICAL CHARACTERISTICS  $\sqrt{1}$**

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT $\sqrt{2}$		5mA	15mA	OUTPUT TRANSISTOR OFF $\sqrt{6}$
OUTPUT VOLTAGE $\sqrt{1\sqrt{3}}$ (OUTPUT TRANSISTOR ON) $\sqrt{5\sqrt{6}}$		0.15V	0.4V	SINKING 10mA MAX
OUTPUT LEAKAGE CURRENT (OUTPUT TRANSISTOR OFF) $\sqrt{5\sqrt{6}}$			10 $\mu$ A	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 10mA) $\sqrt{3\sqrt{5}}$ RISE TIME FALL TIME		0.5 $\mu$ S 0.5 $\mu$ S	1.5 $\mu$ S 1.0 $\mu$ S	10% TO 90% 90% TO 10%

- NOTES**
- $\sqrt{1}$  REFER TO CHART TO DETERMINE THE UNACTUATED OUTPUT VOLTAGE AND OUTPUT TRANSISTOR STATE
  - $\sqrt{2}$  AT 24°C  $\pm$  2°C AND SUPPLY VOLTAGE OF 4.5 TO 24 VOLTS DC
  - $\sqrt{3}$  OVER A TEMPERATURE RANGE OF 0°C TO +70°C
  - $\sqrt{4}$  LEVER MAY NOT BE SELF RETURNING WHEN MOUNTED WITH WEIGHT OF LEVER ON SWITCH PLUNGER
  - $\sqrt{5}$  SUPPLY VOLTAGE OF 4.5 TO 24 VOLTS DC
  - $\sqrt{6}$  "TRANSISTOR ON" CONDITION IS DEFINED TO BE WHEN THE OUTPUT TRANSISTOR IS CONDUCTING CURRENT
  - 7 - BLACK PLUNGER INDICATES NORMALLY HIGH OUTPUT; RED PLUNGER INDICATES NORMALLY LOW OUTPUT
  - $\sqrt{8}$  ACCEPTS CONNECTOR EQUIVALENT TO AMP PART NO. 102241-1
  - $\sqrt{9}$  ACCEPTS CONNECTOR EQUIVALENT TO MOLEX PART NO. 50-57-9403
  - $\sqrt{10}$  SPECIAL LEVER FORM
  - $\sqrt{11}$  SPECIAL TEMPERATURE FOR GE -40°C TO +60°C



SCALE: FULL SIZE



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT

SWITCH SYMBOL

DRAWING NUMBER: VX SERIES CHART 1  
 PAGE 1 OF 4  
 ISSUE: 21  
 CHECK: J A F 13 JAN 99  
 REVISIONS:  
 A CO79902 J A F 7 FEB 95  
 B PR22156 J A K 14 AUG 96  
 C CO83741 J A K 8 OCT 96  
 D CO93789 J A F 3 NOV 98  
 E PR23775 P P F 04 DEC 98  
 F PR23787 P P F 13 JAN 99  
 G PR23780 P P F 25 FEB 99  
 H CO93843 D L T 14 APR 99  
 J CO95107 G J W 29 APR 99  
 K CO-95704 D L M 22 MAR 00  
 FORMTEK DRAWN: J A F 17 FEB 95  
 CHECK: K A G 16 FEB 99  
 REPLACES: X80986-VX

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<b>MICRO SWITCH</b> a Honeywell Division	SWITCH - SOLID STATE	CATALOG LISTING
	<b>VX SERIES CHART 1</b>	

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION

SCALE 3:1

DO NOT SCALE PRINT

**UNLESS OTHERWISE SPECIFIED TOLERANCES ARE**

ONE PLACE (.0)	$\pm$ .030
TWO PLACES (.00)	$\pm$ .015
THREE PLACES (.000)	$\pm$ .005
ANGLES	$\pm$

WEIGHT

"D" LEVER ACTUATION POINT	LEVER TYPE	"E" FREE POSITION (MAX)	"F" OPERATION POINT (MIN)	"G" RELEASE POINT (MAX)	OVER-TRAVEL (MIN)	DIFF TRAVEL (MIN)	FORCE AT OPERATE POINT		UNACTUATED OUTPUT VOLTAGE	OUTPUT TRANSISTOR	SOLDER PLATED TERMINALS		
							OUNCES	GRAMS			CATALOG LISTING	STYLE 1	STYLE 2
							OUNCES	GRAMS			6	8	9
.795	NONE	$\frac{16.38}{.645}$	$\frac{14.22}{.560}$	$\frac{15.54}{.612}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	$\frac{.35}{-.14}^{+.18}$	$10^{+5}_{-4}$	HIGH	OFF	VX10	VX12	
							$\frac{3.0}{.88}$	$85 \times 25$	LOW	ON	VX11	VX13	
.860	A	$\frac{17.27}{.680}$	$\frac{14.71}{.579}$	$\frac{16.33}{.643}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	$\frac{.35}{.2}$	$10 \times 5$	HIGH	OFF	VX10-A1	VX12-A1	
							$2.8 \times 1.1$	$80 \times 30$	LOW	ON	VX11-A1	(H)	
1.400	A	$\frac{19.28}{.759}$	$\frac{13.94}{.549}$	$\frac{17.32}{.682}$	$\frac{2.16}{.085}$	$\frac{0.10}{.004}$	$\frac{0.2}{.1}$	$5^{+3}_{-2}$	HIGH	OFF	VX10-A2	(H)	
							$1.41 \times .50$	$40 \times 15$	LOW	ON	VX11-A2	VX13-A2	
2.340	A	$\frac{22.58}{.889}$	$\frac{12.62}{.497}$	$\frac{18.97}{.747}$	$\frac{4.06}{.160}$	$\frac{0.20}{.008}$	$\frac{.10}{.07}$	$3 \times 2$	HIGH	OFF	VX10-A3	VX12-A3	
							$\frac{.75}{.25}^{+.35}_{-.10}$	$21^{+9}_{-7}$	LOW	ON	VX11-A3	VX13-A3	
1.285	B	$\frac{22.23}{.875}$	$\frac{17.02}{.670}$	$\frac{20.52}{.808}$	$\frac{1.91}{.075}$	$\frac{0.10}{.004}$	$\frac{0.20}{.10}^{+.15}_{-.10}$	$5^{+4}_{-2}$	HIGH	OFF	VX10-B1	VX12-B1	
							$1.55 \times .53$	$44 \times 15$	LOW	ON	VX11-B1	VX13-B1	
.810	C	$\frac{22.48}{.885}$	$\frac{19.99}{.787}$	$\frac{21.62}{.851}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	$\frac{.40}{.20}$	$12 \times 5$	HIGH	OFF	VX10-C1	VX12-C1	
							$3.0 \times 1.06$	$85 \times 30$	LOW	ON	VX11-C1	VX13-C1	
$\frac{.795}{\Delta}$	A	$\frac{17.78}{.700}$	$\frac{14.73}{.580}$	$\frac{16.13}{.635}$	$\frac{1.02}{.040}$	$\frac{0.10}{.004}$	$\frac{.35}{-.14}^{+.18}$	$10^{+5}_{-4}$	LOW	ON	VX81-A2-GE		
1.226	F	$\frac{25.73}{1.013}$	$\frac{21.72}{.855}$	$\frac{23.98}{.944}$	$\frac{1.65}{.065}$	$\frac{0.13}{.005}$	$\frac{.35}{-.14}^{+.18}$	$10^{+5}_{-4}$	HIGH	OFF	VX10-F1	VX11-F1	
1.250	F	$\frac{25.58}{1.007}$	$\frac{21.72}{.855}$	$\frac{23.83}{.938}$	$\frac{1.65}{.065}$	$\frac{0.13}{.005}$	$\frac{.35}{-.14}^{+.18}$	$10^{+5}_{-4}$	HIGH	OFF	VX10-FA		

NOTE  
 $\Delta$  MEASUREMENTS TAKEN OVER PLUNGER

DRAWING NUMBER: VX SERIES CHART 1  
 PAGE 2 OF 4  
 ISSUE: 21  
 RELEASE NO. PR-12882  
 REPLACES: X80986-VX  
 REVISIONS:  
 L CO-95107  
 G J W 29 APR 99  
 K CO-95704  
 DLM 22 MAR 00  
 CHECK J A F 13 JAN 99  
 CHECK J A F 08 DEC 98  
 CHECK J A F 08 DEC 98  
 DRAWN: J A S BAUG88  
 FORMTEK



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 ANSI Y14.5M-1982 APPLIES

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 a Honeywell Division

SWITCH - SOLID STATE

CATALOG LISTING  
**VX SERIES**  
**CHART 1**

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

**UNLESS OTHERWISE SPECIFIED TOLERANCES ARE**

ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±

WEIGHT

UNLESS OTHERWISE NOTED MECHANICAL CHARACTERISTICS ARE GIVEN ON LEVER OVER PLUNGER

"D" LEVER ACTUATION POINT	LEVER TYPE	"E" FREE POSITION (MAX)	"F" OPERATION POINT (MIN)	"G" RELEASE POINT (MAX)	OVER-TRAVEL (MIN)	DIFF TRAVEL (MIN)	FORCE AT OPERATE POINT		UNACTUATED OUTPUT VOLTAGE	OUTPUT TRANSISTOR	CATALOG LISTING		COMMENTS
							OUNCES	GRAMS			STYLE 1	STYLE 2	
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF	VX10-F4		GENICOM DRAWING NO. 44A501960-001
.795	H	$\frac{17.02}{.670}$	$\frac{15.37}{.605}$	$\frac{16.69}{.657}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF			
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	LOW	ON			
.795	H	$\frac{17.02}{.670}$	$\frac{15.37}{.605}$	$\frac{16.69}{.657}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF	VX10-H2		
	NONE	$\frac{16.38}{.645}$	$\frac{14.22}{.560}$	$\frac{15.54}{.612}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	1.2* $\frac{+18}{-14}$	34* $\frac{+5}{-4}$	HIGH	OFF	VX30HP		
.795	A	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF			
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF			
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF	VX10-F8		
.810	C	$\frac{22.48}{.885}$	$\frac{19.99}{.787}$	$\frac{21.62}{.851}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	.19* $\frac{+18}{-14}$	5.4* $\frac{+5}{-4}$	HIGH	OFF	VX10-C1L		

DRAWING NUMBER: VX SERIES CHART 1  
 PAGE 3 OF 4  
 ISSUE: 21  
 RELEASE NO. PR-13520  
 REPLACES: X80986-VX  
 REVISIONS:  
 A PR16589 JAS 22 JUL 88  
 A PR16590 JAS 22 JUL 88  
 A C084025 JAS 22 JUL 88  
 B PR17180 JAF 3 MAR 89  
 C C093789 JAF 3 NOV 88  
 D PR23775 JAF 08 DEC 88  
 E PR23787 JAF 13 JAN 89  
 F PR23780 JAF 25 FEB 89  
 G C093843 JAF 14 APR 89  
 H C0-95107 JAF 29 APR 89  
 J C0-95704 JAF 22 MAR 00  
 FORMTEK DRAWN BY: JAS  
 CHECKED BY: JAF



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a Honeywell Division

SWITCH - SOLID STATE

CATALOG LISTING  
**VX SERIES**  
**CHART 1**

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION	
SCALE	NONE
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE	(.0) ±.030
TWO PLACES	(.00) ±.015
THREE PLACES	(.000) ±.005
ANGLES	±
WEIGHT	

UNLESS OTHERWISE NOTED MECHANICAL CHARACTERISTICS ARE GIVEN ON LEVER OVER PLUNGER

"D" LEVER ACTUATION POINT	LEVER TYPE	"E" FREE POSITION (MAX)	"F" OPERATION POINT (MIN)	"G" RELEASE POINT (MAX)	OVER-TRAVEL (MIN)	DIFF TRAVEL (MIN)	FORCE AT OPERATE POINT		UNACTUATED OUTPUT VOLTAGE	OUTPUT TRANSISTOR	CATALOG LISTING		IBM DRAWING NO.	COMMENTS
							OUNCES	GRAMS			STYLE 1	STYLE 2		
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+.18}{-.14}$	10 $\frac{+5}{-4}$	HIGH	OFF	VX10-F1		4592340	
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+.18}{-.14}$	10 $\frac{+5}{-4}$	HIGH	OFF	(F)		4593242	
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+.18}{-.14}$	10 $\frac{+5}{-4}$	HIGH	OFF	(F)		4593470	
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+.18}{-.14}$	10 $\frac{+5}{-4}$	HIGH	OFF	(F)		4592552	

IBM CORPORATION SWITCHES ONLY THIS PAGE

DRAWING NUMBER: VX SERIES CHART 1  
 PAGE 4 OF 4  
 ISSUE: 21  
 RELEASE NO. PR-13487  
 REPLACES: X80986-VX  
 REVISIONS:  
 A CO64025 J A S 9 AUG 88  
 B CO93789 D L T 3 NOV 98  
 C PR23775 P P F 03 DEC 98  
 D PR23787 M P O 13 JAN 99  
 E PR23780 P P F 25 FEB 99  
 F CO93843 D L T 14 APR 99  
 G CO-96107 S L W 29 APR 99  
 H CO-95704 D L M 22 MAR 00  
 CHECK J A F 13JAN99  
 CHECK J A F 09DEC98  
 CHECK J A F 09AUG88  
 FORMTEK DRAWN



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ANSI Y14.5M-1982 APPLIES

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a Honeywell Division

SWITCH - SOLID STATE

CATALOG LISTING  
VX SERIES  
CHART 1

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION	
SCALE	NONE
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE	(.0) ±.030
TWO PLACES	(.00) ±.015
THREE PLACES	(.000) ±.005
ANGLES	±
WEIGHT	

**ABSOLUTE MAXIMUM RATINGS**

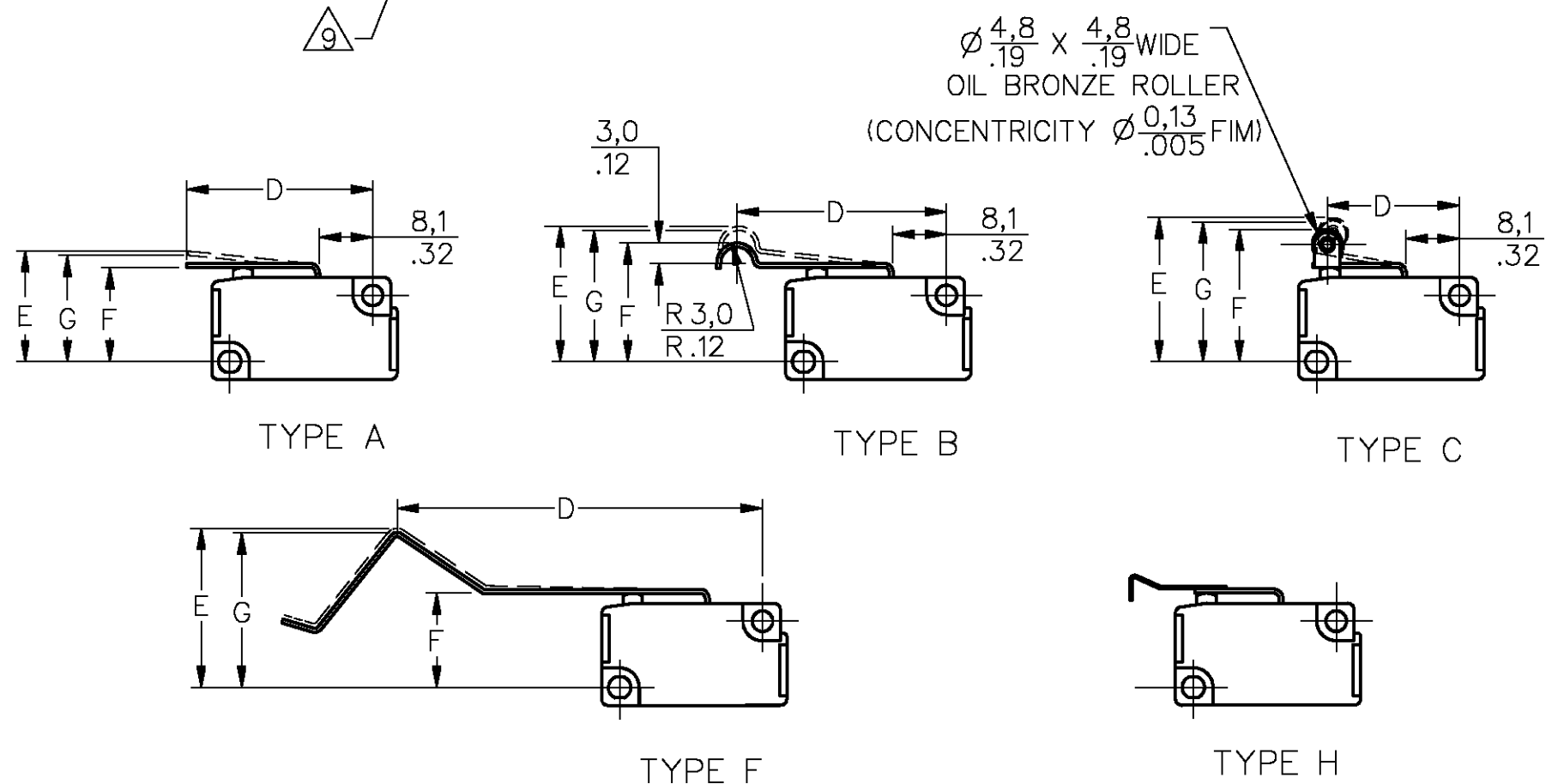
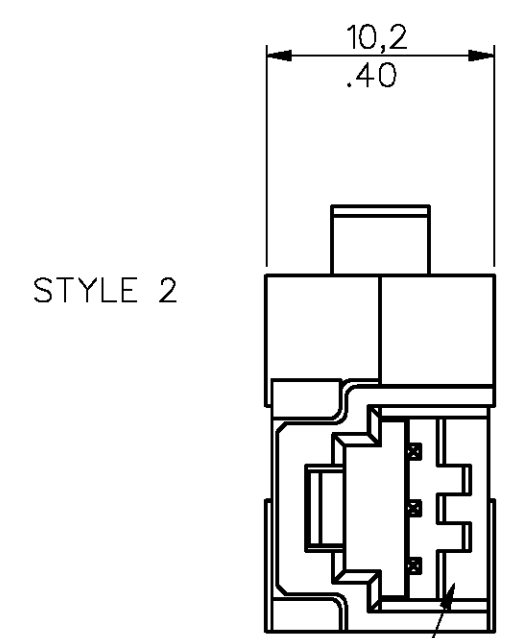
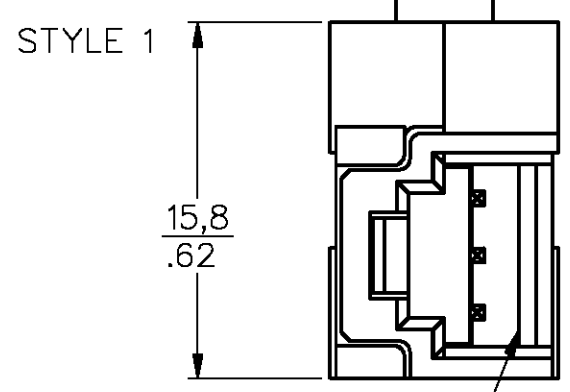
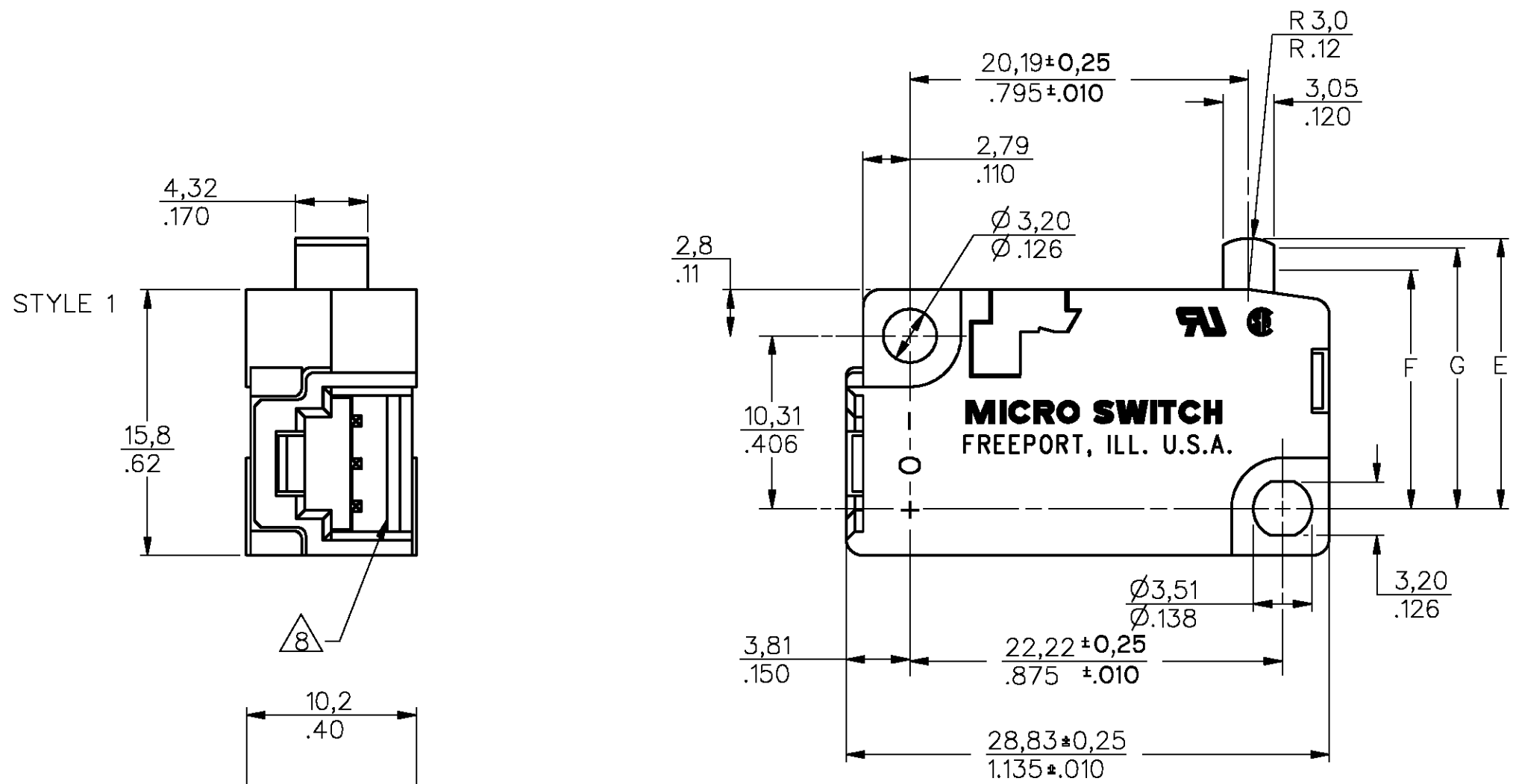
SUPPLY VOLTAGE (V <sub>s</sub> )	-24 TO +28 VOLTS DC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	28 VOLTS DC MAX WITH OUTPUT TRANSISTOR IN OFF CONDITION ONLY $\sqrt{1/6}$ -0.5 VOLTS MIN WITH OUTPUT TRANSISTOR IN ON OR OFF CONDITION $\sqrt{1/6}$
LOAD ON OUTPUT	20mA
TEMPERATURE $\sqrt{11}$	-40°C TO +70°C EXCEPT SPECIAL LISTINGS

**ELECTRICAL CHARACTERISTICS  $\sqrt{1}$**

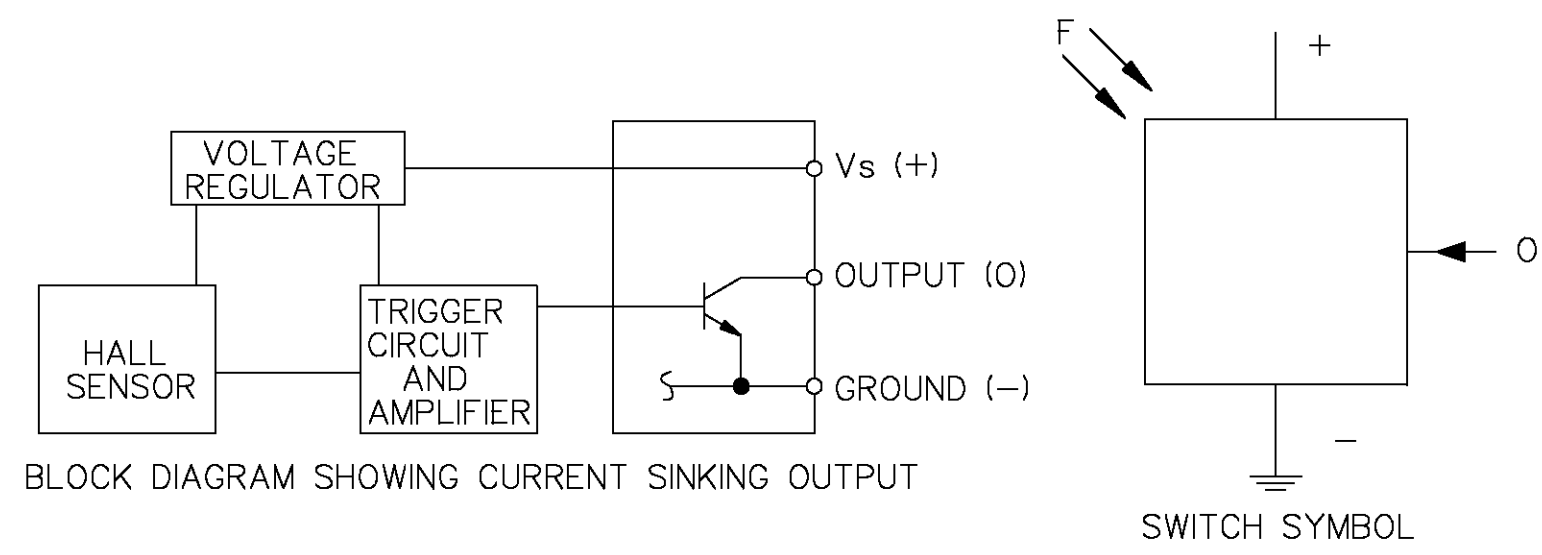
	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT $\sqrt{2}$		5mA	15mA	OUTPUT TRANSISTOR OFF $\sqrt{6}$
OUTPUT VOLTAGE $\sqrt{1/3}$ (OUTPUT TRANSISTOR ON) $\sqrt{5/6}$		0.15V	0.4V	SINKING 10mA MAX
OUTPUT LEAKAGE CURRENT (OUTPUT TRANSISTOR OFF) $\sqrt{5/6}$			10μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 10mA) $\sqrt{3/5}$				
RISE TIME		0.5μS	1.5μS	10% TO 90%
FALL TIME		0.5μS	1.0μS	90% TO 10%

**NOTES**

- $\sqrt{1}$  REFER TO CHART TO DETERMINE THE UNACTUATED OUTPUT VOLTAGE AND OUTPUT TRANSISTOR STATE
- $\sqrt{2}$  AT 24°C ± 2°C AND SUPPLY VOLTAGE OF 4.5 TO 24 VOLTS DC
- $\sqrt{3}$  OVER A TEMPERATURE RANGE OF 0°C TO +70°C
- $\sqrt{4}$  LEVER MAY NOT BE SELF RETURNING WHEN MOUNTED WITH WEIGHT OF LEVER ON SWITCH PLUNGER
- $\sqrt{5}$  SUPPLY VOLTAGE OF 4.5 TO 24 VOLTS DC
- $\sqrt{6}$  "TRANSISTOR ON" CONDITION IS DEFINED TO BE WHEN THE OUTPUT TRANSISTOR IS CONDUCTING CURRENT
- 7 - BLACK PLUNGER INDICATES NORMALLY HIGH OUTPUT; RED PLUNGER INDICATES NORMALLY LOW OUTPUT
- $\sqrt{8}$  ACCEPTS CONNECTOR EQUIVALENT TO AMP PART NO. 102241-1
- $\sqrt{9}$  ACCEPTS CONNECTOR EQUIVALENT TO MOLEX PART NO. 50-57-9403
- $\sqrt{10}$  SPECIAL LEVER FORM
- $\sqrt{11}$  SPECIAL TEMPERATURE FOR GE -40°C TO +60°C



SCALE: FULL SIZE



DRAWING NUMBER: VX SERIES CHART 1  
 PAGE 1 OF 4  
 ISSUE: 21  
 CHECK: J A F 13 JAN 99  
 RELEASE NO. PR-12882  
 REPLACES: X80986-VX  
 REVISIONS:  
 A CO79902 J A F 7 FEB 95  
 B PR22156 J A K 14 AUG 96  
 C CO83741 J A K 8 OCT 96  
 D CO93789 J A F 3 NOV 98  
 E PR23775 P P F 04 DEC 98  
 F PR23787 J A F 13 JAN 99  
 G PR23780 J A F 25 FEB 99  
 H CO93843 D L T 14 APR 99  
 J CO95107 G J W 29 APR 99  
 K CO-95704 D L M 22 MAR 00  
 FORMTEK DRAWN: J A F 7 FEB 95  
 CHECK: K A G 16 FEB 99

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SWITCH - SOLID STATE

CATALOG LISTING

**VX SERIES CHART 1**

THIRD ANGLE PROJECTION

SCALE 3:1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.0)	±.030
TWO PLACES (.00)	±.015
THREE PLACES (.000)	±.005
ANGLES	±

WEIGHT

MASTER REDUCED ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929

"D" LEVER ACTUATION POINT	LEVER TYPE	"E" FREE POSITION (MAX)	"F" OPERATION POINT (MIN)	"G" RELEASE POINT (MAX)	OVER-TRAVEL (MIN)	DIFF TRAVEL (MIN)	FORCE AT OPERATE POINT		UNACTUATED OUTPUT VOLTAGE	OUTPUT TRANSISTOR	SOLDER PLATED TERMINALS		
							OUNCES	GRAMS			CATALOG LISTING	STYLE 1	STYLE 2
							OUNCES	GRAMS			6	8	9
.795	NONE	$\frac{16.38}{.645}$	$\frac{14.22}{.560}$	$\frac{15.54}{.612}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	$\frac{.35}{-.14}^{+.18}$	$10^{+5}_{-4}$	HIGH	OFF	VX10	VX12	
							$\frac{3.0}{.88}$	$85^{*}25$	LOW	ON	VX11	VX13	
.860	A	$\frac{17.27}{.680}$	$\frac{14.71}{.579}$	$\frac{16.33}{.643}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	$\frac{.35}{.2}$	$10^{*}5$	HIGH	OFF	VX10-A1	VX12-A1	
							$2.8^{*}1.1$	$80^{*}30$	LOW	ON	VX11-A1	(H)	
1.400	A	$\frac{19.28}{.759}$	$\frac{13.94}{.549}$	$\frac{17.32}{.682}$	$\frac{2.16}{.085}$	$\frac{0.10}{.004}$	$\frac{0.2}{.1}$	$5^{+3}_{-2}$	HIGH	OFF	VX80-A1	(H)	
							$1.41^{*}.50$	$40^{*}15$	LOW	ON	VX81-A1	(H)	
2.340	A	$\frac{22.58}{.889}$	$\frac{12.62}{.497}$	$\frac{18.97}{.747}$	$\frac{4.06}{.160}$	$\frac{0.20}{.008}$	$\frac{.10}{.07}$	$3^{*}2$	HIGH	OFF	VX10-A2	(H)	
							$\frac{.75}{.25}^{+.35}$	$21^{+9}_{-7}$	LOW	ON	VX11-A2	(H)	
1.285	B	$\frac{22.23}{.875}$	$\frac{17.02}{.670}$	$\frac{20.52}{.808}$	$\frac{1.91}{.075}$	$\frac{0.10}{.004}$	$\frac{0.20}{.10}^{+.15}$	$5^{+4}_{-2}$	HIGH	OFF	VX80-A2	VX82-A2	
							$1.55^{*}.53$	$44^{*}15$	LOW	ON	VX81-A2	(H)	
.810	C	$\frac{22.48}{.885}$	$\frac{19.99}{.787}$	$\frac{21.62}{.851}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	$\frac{.40}{.20}$	$12^{*}5$	HIGH	OFF	VX10-A3	VX12-A3	
							$\frac{3.0}{1.06}$	$85^{*}30$	LOW	ON	VX11-A3	VX13-A3	
$\frac{.795}{\Delta}$	A	$\frac{17.78}{.700}$	$\frac{14.73}{.580}$	$\frac{16.13}{.635}$	$\frac{1.02}{.040}$	$\frac{0.10}{.004}$	$\frac{.35}{-.14}^{+.18}$	$10^{+5}_{-4}$	LOW	ON	VX80-C1	(H)	
1.226	F	$\frac{25.73}{1.013}$	$\frac{21.72}{.855}$	$\frac{23.98}{.944}$	$\frac{1.65}{.065}$	$\frac{0.13}{.005}$	$\frac{.35}{-.14}^{+.18}$	$10^{+5}_{-4}$	HIGH	OFF	VX81-C1		
1.250	F	$\frac{25.58}{1.007}$	$\frac{21.72}{.855}$	$\frac{23.83}{.938}$	$\frac{1.65}{.065}$	$\frac{0.13}{.005}$	$\frac{.35}{-.14}^{+.18}$	$10^{+5}_{-4}$	HIGH	OFF	VX81-A2-GE		

NOTE  
 $\Delta$  MEASUREMENTS TAKEN OVER PLUNGER

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 REVISIONS:  
 L CO-95107  
 G J W 29 APR 99  
 K CO-95704  
 DLM 22 MAR 00  
 CHECK J A F 13 JAN 99  
 CHECK J A F 08 DEC 98  
 CHECK J A F 13 JAN 99  
 FORMTEK DRAWN J A S BAUG88  
 REPLACES X80986-VX



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CATALOG LISTING  
**VX SERIES**  
**CHART 1**

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±

WEIGHT

UNLESS OTHERWISE NOTED MECHANICAL CHARACTERISTICS ARE GIVEN ON LEVER OVER PLUNGER

"D" LEVER ACTUATION POINT	LEVER TYPE	"E" FREE POSITION (MAX)	"F" OPERATION POINT (MIN)	"G" RELEASE POINT (MAX)	OVER-TRAVEL (MIN)	DIFF TRAVEL (MIN)	FORCE AT OPERATE POINT		UNACTUATED OUTPUT VOLTAGE	OUTPUT TRANSISTOR	CATALOG LISTING		COMMENTS
							OUNCES	GRAMS			STYLE 1	STYLE 2	
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF	VX10-F4		GENICOM DRAWING NO. 44A501960-001
.795	H	$\frac{17.02}{.670}$	$\frac{15.37}{.605}$	$\frac{16.69}{.657}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF			
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	LOW	ON			
.795	H	$\frac{17.02}{.670}$	$\frac{15.37}{.605}$	$\frac{16.69}{.657}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF	VX10-H2		
	NONE	$\frac{16.38}{.645}$	$\frac{14.22}{.560}$	$\frac{15.54}{.612}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	1.2* $\frac{+18}{-14}$	34* $\frac{+5}{-4}$	HIGH	OFF	VX30HP		
.795	A	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF			
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF			
.795	F	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+18}{-14}$	10 $\frac{+5}{-4}$	HIGH	OFF	VX10-F8		
.810	C	$\frac{22.48}{.885}$	$\frac{19.99}{.787}$	$\frac{21.62}{.851}$	$\frac{1.02}{.040}$	$\frac{0.05}{.002}$	.19* $\frac{+18}{-14}$	5.4* $\frac{+5}{-4}$	HIGH	OFF	VX10-C1L		

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 REVISIONS:  
 A PR16589  
 22 JUL 88  
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 22 JUL 88  
 A C084025  
 J A S  
 22 JUL 88  
 B PR17180  
 K A T  
 3 MAR 89  
 C C093789  
 J T T  
 3 NOV 88  
 D PR23775  
 P B F  
 08 DEC 88  
 E PR23787  
 M B O  
 13 JAN 89  
 F PR23780  
 G R T  
 25 FEB 89  
 G C093843  
 D L T  
 14 APR 89  
 H C0-95107  
 G J W  
 29 APR 89  
 J C0-95704  
 D L W  
 22 MAR 00  
 FORMTEK DRAWN BY: JAS  
 CHECKED BY: JAF  
 DATE: 22 JUL 88



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






SWITCH - SOLID STATE

CATALOG LISTING  
**VX SERIES**  
**CHART 1**

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION		
SCALE	NONE	
DO NOT SCALE PRINT		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE		
ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±
WEIGHT		

UNLESS OTHERWISE NOTED MECHANICAL CHARACTERISTICS ARE GIVEN ON LEVER OVER PLUNGER

"D" LEVER ACTUATION POINT	LEVER TYPE	"E" FREE POSITION (MAX)	"F" OPERATION POINT (MIN)	"G" RELEASE POINT (MAX)	OVER-TRAVEL (MIN)	DIFF TRAVEL (MIN)	FORCE AT OPERATE POINT		UNACTUATED OUTPUT VOLTAGE	OUTPUT TRANSISTOR	CATALOG LISTING		IBM DRAWING NO.	COMMENTS
							OUNCES	GRAMS			STYLE 1	STYLE 2		
.795	F 	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+.18}{-.14}$	10 $\frac{+5}{-4}$	HIGH	OFF	VX10-F1		4592340	
.795	F 	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+.18}{-.14}$	10 $\frac{+5}{-4}$	HIGH	OFF			4593242	
.795	F 	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+.18}{-.14}$	10 $\frac{+5}{-4}$	HIGH	OFF			4593470	
.795	F 	$\frac{17.02}{.670}$	$\frac{14.86}{.585}$	$\frac{16.18}{.637}$	$\frac{0.91}{.036}$	$\frac{0.05}{.002}$	.35 $\frac{+.18}{-.14}$	10 $\frac{+5}{-4}$	HIGH	OFF			4592552	

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 REPLACES: X80986-VX  
 REVISIONS:  
 A CO64025 J A S 9 AUG 88  
 B CO93789 D L T 3 NOV 98  
 C PR23775 P P F 03 DEC 98  
 D PR23787 M F O 13 JAN 99  
 E PR23780 P P F 25 FEB 99  
 F CO93843 D L T 14 APR 99  
 G CO-96107 S L W 29 APR 99  
 H CO-95704 D L M 22 MAR 00  
 CHECK J A F 13JAN99  
 CHECK J A F 09DEC98  
 CHECK J A F 09AUG88  
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CATALOG LISTING  
VX SERIES  
CHART 1

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION	
SCALE	NONE
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE	(.0) ±.030
TWO PLACES	(.00) ±.015
THREE PLACES	(.000) ±.005
ANGLES	±
WEIGHT	